PROJECT DATA

ICC/ANSI A117.1, 2017 ed.

Occupancy Classification

Separation of Occupancies

Allowable Height (Stories/Feet)

1st Floor

2nd Floor

Primary Structural Frame

Exterior Non-Bearing Walls

Interior Non-Bearing Walls

Shafts (IBC Sec. 713.4)

Climate Zone: 5

WINDOW TYPE

GYPSUM

BOARD

CONCRETE HARDWOOD BATT

MASONRY

MASONRY UNIT

BRICK

WOOD

FRAMING

INSULATION

Interior Exit Stairway (IBC Sec. 1023)

Exit Access Stairway (IBC Sec. 1019)

**Exterior Bearing Walls** 

Interior Bearing Walls

Construction Type:

Actual Building Height (Stories/Feet) N/A

Fire-Resistance Ratings for Building Elements (IBC Table 601)

Floor Construction & Associated Secondary Members

Roof Construction & Associates Secondary Members

Two Story Vertical Openings (IBC Sec. 712.1.9)

Building Area (insert floors as needed)

**Construction Type** 

<u>CRITERIA</u>

Sprinkled

ADA Standards for Accessible Design, 2010

International Mechanical Code (IMC), 2021 ed.

ANSI/ASHRAE Standard 90.1-2016, Prescriptive

International Plumbing Code (IPC), 2021 ed.

National Electrical Code (NEC), 2020 ed.

International Fire Code (IFC), 2021 ed.

International Fuel Gas Code (IFGC), 2021 ed.

International Building Code, including Appendices C & J (IBC), 2021 ed.

International Energy Conservation Code (IECC), 2021 ed., Prescriptive

International Existing Building Code (IEBC), 2021 ed., Work Area - Level 2 Alteration

Non-separated

**APPLICABLE CODES & STANDARDS** 

# J.E. COSGRIFF MEMORIAL CATHOLIC REMODEL 2335 REDONDO AVE SALT LAKE CITY, UT 84108

# CONSTRUCTION DOCUMENTS MAY 21, 2025

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**GENERAL** 

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**ARCHITECTURAL** DEMOLITION PLAN FIRST FLOOR PLAN

INTERIOR ELEVATIONS DOOR SCHEDULE, TYPES & DETAILS WINDOW TYPES & DETAILS FINISH SCHEDULE, LEGEND & DETAILS FIRST FLOOR PATTERN PLAN CEILING DETAILS

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**ELECTRICAL DIAGRAMS** SECURITY DIAGRAMS ELECTRICAL DEMOLITION PLAN **ELECTRICAL PLANS** 

# PROJECT GENERAL REMODEL NOTES

**Verify in Field (VIF):** Field verify all dimensions and conditions at the site before submitting a bid or proceeding with any portion of the work.

**Cut and Patch**: Cut and patch existing building construction as required. Cutting and drilling of structural members not detailed requires the written permission of the structural

**Conflicts**: Whenever questions arise or conditions are encountered which are not covered by, or are in conflict with, the contract documents, consult with the Architect prior to taking any further action.

**Demolish, Remove:** Terms are used interchangeably to indicate detaching or tearing down items from existing construction and legally disposing of them off-site unless indicted to be removed and salvaged or removed and reinstalled.

**Existing to Remain:** Existing items of the building that are not to be permanently removed and that are not otherwise indicated to be demolished, removed, removed and salvaged or removed and reinstalled.

**Equipment Relocation**: Relocate existing mechanical and electrical as required for installation of new work.

**Material Disposal**: Legally dispose of all demolished or removed existing material, unless noted otherwise.

**Salvage Material**: Coordinate with the owner for removal of existing material noted to be returned to the owner. Removal shall be by the owner unless noted otherwise Phasing: coordinate phasing of the work with the Owner and the Architect to meet the

Protection & Cleaning: Contain all construction activity within construction barricades or fences. Protect owner's existing facilities and property adjacent to new construction. During and after work of this contract is complete, clean existing areas affected by the work to the owner's satisfaction.

Protect all existing conditions that remain during phased construction and/or demolition work. Repair any damage due to new work.

**Repair & Replacement**: Repair or replace existing facilities or property damaged by new construction. Match existing surface finish or material.

Patch & Repair: Patch and repair existing walls, floors, ceilings, landscaping, paving or other surfaces affected by demolition to match the existing material and finish.

**Core Drilling Walls and Slabs:** 

Use ground penetrating radar or other approved method to scan concrete over metal deck, concrete suspended slabs, masonry walls, and concrete walls to locate rebar prior to core drilling any holes. Holes shall be located to avoid rebar detected. All openings and groups of openings shall be reinforced as shown on the structural drawings. Submit openings not shown on the structural drawings to the Structural Engineer for review prior

# PROJECT GENERAL NOTES

**Building Codes:** Comply with requirements of the adopted editions of the international code council codes, the codes and standards referenced within the ICC codes and the Americans with Disabilities

**Dimensions**: Metal stud walls are dimensioned to face of metal stud, unless noted otherwise. Masonry walls are dimensioned to face of masonry.

**Special Inspections:** An Owner-provided, AHJ approved Independent Agency will provide Special Inspections of the following Architectural Components:

Per IBC Sec 1705.12.5 (in Seismic Design Category D, E, or F:

Erection and Fastening of: Interior Nonbearing Walls

Interior Veneer Per Section 1705.14: Sprayed Fire-resistant Materials

Per Section 1705.15:

Mastic and Intumescent Fire-Resistant Coatings applied to structural elements and decks

Fire Alarm

Seismic Restraints for Equipment (Mechanical, Plumbing, Electrical) Guards and Handrails

**Specifications:** Refer to the specifications for descriptions of products, materials and systems. The terms "SEE SPECS." "RE: SPECS" or similar references to the specifications have been omitted from drawing notes, but the requirement is still the same, to refer to the technical specifications for

**Symbols:** Where symbols and legends are used to indicate a product or system, provide those items in the quantity indicated by the symbol. Where plumbing fixtures, equipment, light fixtures and other similar products are shown on Architectural drawings, refer to the appropriate discipline drawings for type, utilities and other requirements.

**Details:** Terms such as "see specs," "re: mechanical" and so forth have been omitted from these details. All details require the general contractor and sub-contractors to refer to other drawings and specifications as required to understand and provide the items indicated and to provide supporting items that may or may not be shown.

The continuous nature of the materials shown in the details is inferred, though the word "continuous" may be omitted from the detail notes.

Bullnose Corners: Provide bullnose corners on outside corners. Typical at all interior masonry walls. Interior Masonry Hidden from View: Provide masonry units of same quality and color where hidden from view by objects that can change (e.g. cabinets, tackboards, whiteboards, etc.). Masonry above ceilings and hidden from view may, with the Architect's approval incorporate factory seconds and/or other colors provided structural integrity of the walls is not compromised.

# PROJECT GENERAL TI NOTES

**Attachment to Steel Deck:** 

Do not use steel deck that doesn't have concrete fill to support loads from plumbing, fire sprinklers, HVAC ducts, light fixtures, architectural elements or equipment of any kind, unless specifically noted otherwise. Lightweight acoustical ceilings with a total weight per wire not exceeding 50 pounds may be hung from the steel roof deck. Stagger hangers to distribute the load over multiple

Steel deck with concrete fill may be used to support loads of up to 500 pounds from plumbing, fire sprinklers, HVAC ducts, light fixtures, architectural elements and miscellaneous equipment. Distribute loads such that the average load does not exceed 50 lbs/sq.ft. and not more than 500 pounds is located on any single deck flute span between support beams. Attachments to steel deck with concrete fill shall engage the concrete, and shall be approved for use in cracked concrete.

**Attachment to Open Web Steel Joists and Girders:** 

All concentrated loads greater than 100 pounds and not meeting the requirements of the paragraph below shall be located within 6 inches of the joist or girder panel points or the joist or girder shall be reinforced with an additional web member. Refer to the general structural notes and the "typical detail at additional concentrated point load" on the structural drawings.

Concentrated point loads, single or multiple, totaling 100 pounds or less between panel points can be located at any point along the top or bottom chord of a joist or girder between adjacent panel points without meeting the requirements of the paragraph above, provided the loads are applied to the joist such that both angles of the bottom chord are equally loaded (i.e. no single beam clamps).

Joist bridging shall not be used to support hanging loads.

Bracing of miscellaneous items including mechanical, plumbing, conduit, architectural elements, etc. shall connect to the top chord of the joist or girder unless noted otherwise on the structural

**Attachment to Steel Beams:** 

Bracing for seismic loads shall attach within 4" of the top flange of the beam, unless noted

# **ARCHITECTURE**

MHTN ARCHITECTS, INC. 280 SOUTH 400 WEST SUITE 250 SALT LAKE CITY, UT 84111 PHONE: 801.595.6700

# STRUCTURAL

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# **MECHANICAL**

**OLSEN & PETERSON** 14 EAST 2700 SOUTH SALT LAKE CITY, UT 84115 PHONE: 801.486.4646

# **ELECTRICAL**

RESOLUT 181 EAST 5600 SOUTH MURRAY, UT 84107 PHONE: 801.530.3148



Salt Lake City, Utah 84101

Telephone (801) 595-6700

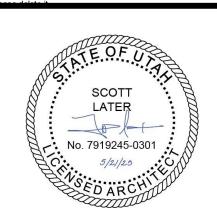
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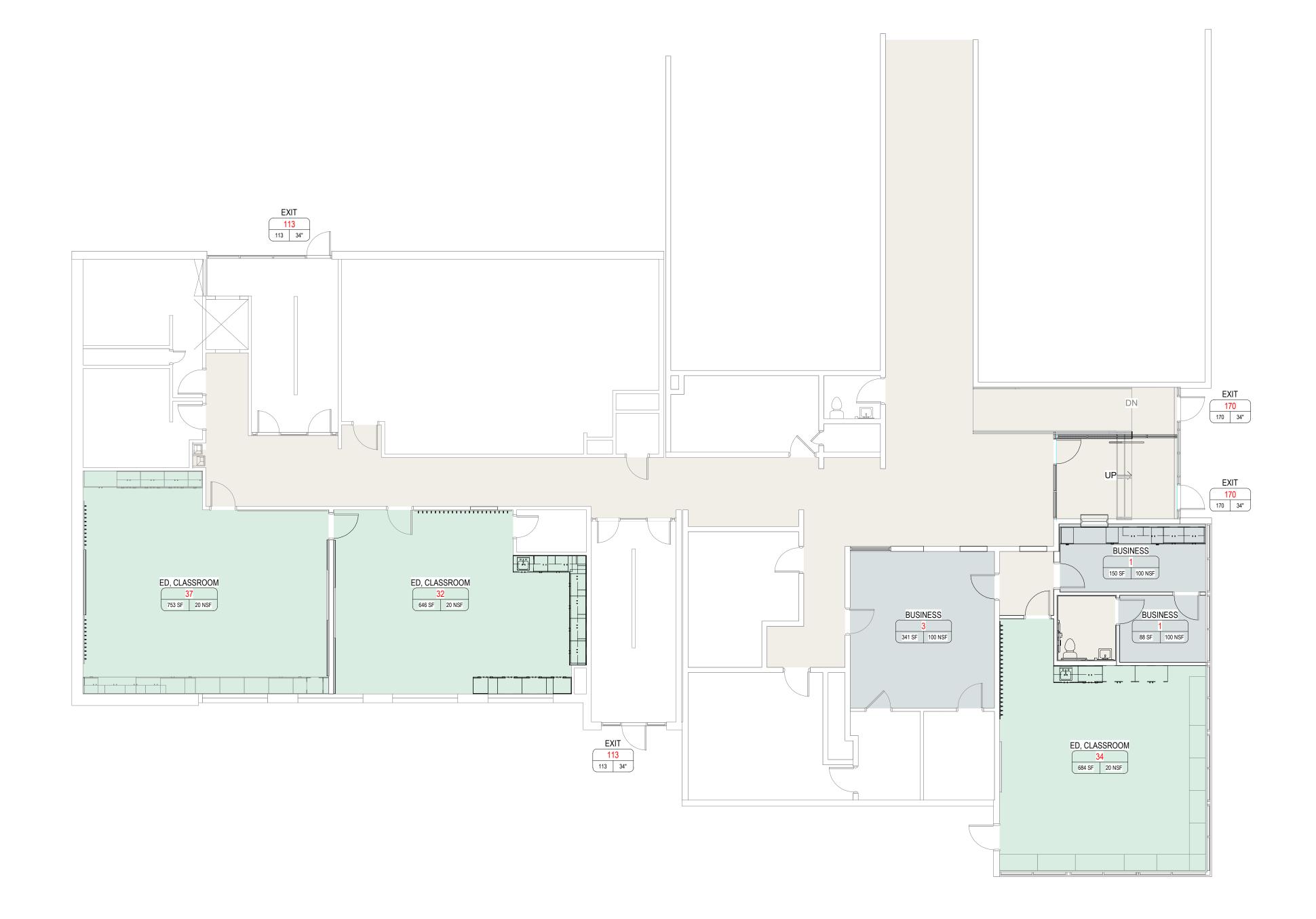
**INDEX SHEET** 

G001

SIGNAGE TYPE

**MATERIALS** 

VICINITY MAP



3

FIRST FLOOR LIFE SAFETY PLAN

SCALE: 1/8" = 1'-0"

LIFE SAFETY PLAN GENERAL NOTES

References to sheets below are provided to aid in navigating the drawings.

RE: G500 for Interior Wall Types which indicate ratings, reference termination details, and require rated wall identification.

RE: G300 for Fire Penetration Details

RE: G310 for UL, GA, and/or IBC reference numbers for rated assemblies

RE: G400 for floor/ceiling and roof/ceiling rated assemblies

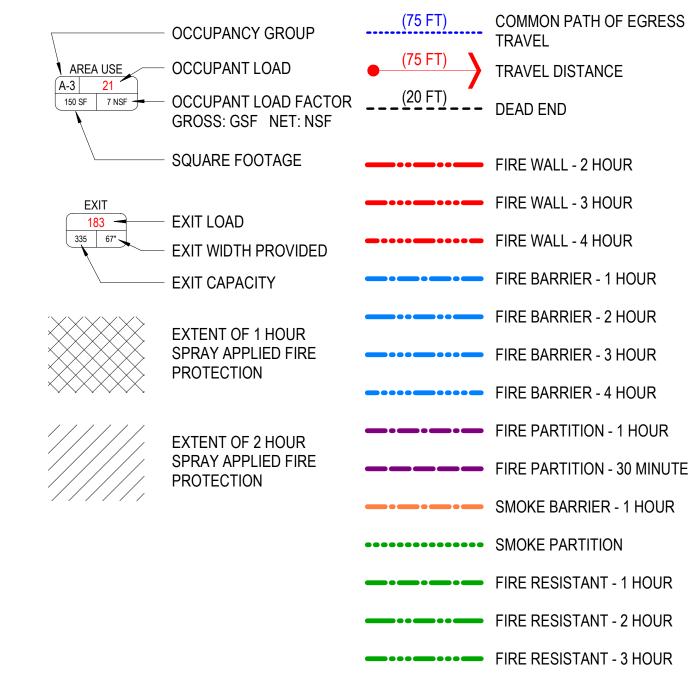
RE: A600 for the Door Schedule and door ratings.

RE: A620 for Window Types and window ratings.

Include one of the following two statements: Exit Width Capacity: Exit width capacities are based on 0.3" per occupant at stairways and 0.2" per occupant at other means of egress components.

Exit Width Capacity: This project includes an automatic sprinkler system and an emergency voice/alarm communications sytem. Exit width capacities are based on 0.2" per occupant at stairways and 0.15" per occupant at other means of egress components.

# **LEGEND - LIFE SAFETY**



# AREA FUNCTION (IBC TABLE 1004.1.2)

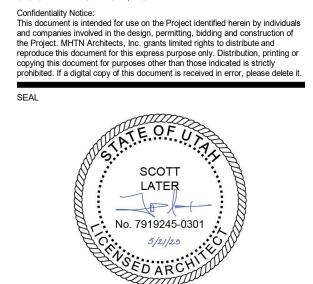
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REMODE



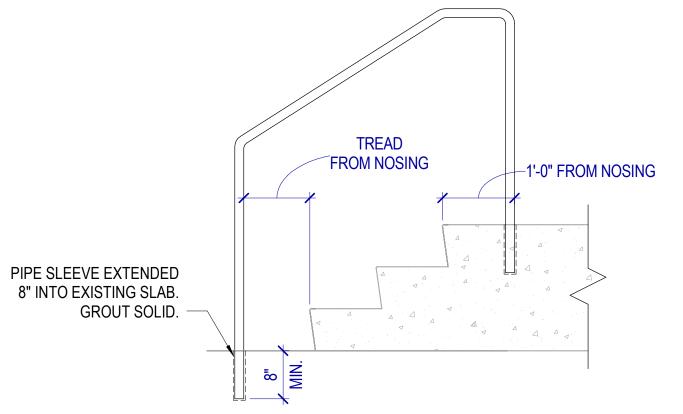
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CONSTRUCTION DOCUMENTS MAY 21, 2025

FIRST FLOOR LIFE SAFETY PLAN

G101



BOTTOM OF STAIR DETAIL

SCALE: 3/4" = 1'-0"

# MOUNTING HEIGHTS & CLEARANCES GENERAL NOTES

Diagrams on this sheet incorporate the ADA Standard, 2010 edition and ICC/ANSI A117.1, 2009 edition requirements for accessibility. The most restrictive requirement is shown where the two standards differ.

The purpose of this sheet is to provide general clearance, size and mounting height dimensions. If other drawings provide different information, that doesn't violate the accessibility standards, that information shall govern, however, nothing shown herein shall supersede the requirement of the standards listed above, nor of the IBC.

Prior to installation, coordinate toilet and bath accessory mounting heights with manufacturer's recommended heights and adjust as required to comply with ADA & ANSI requirements.

Where the accessibility standards indicate ranges of dimensions, or minimum or maximum dimensions, the dimensions on this sheet have been modified to indicate the preferred or the most restrictive of the dimensions. Where it is impractical to comply with a dimension, the dimension may be adjusted after review with the Architect and, provided the proposed change does not violate the accessibility standards.

Dimensions shown herein indicate face of wall, floor, ceiling and other building elements.



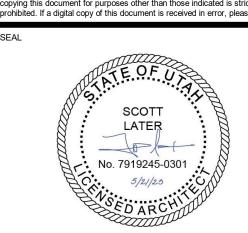
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MEMORIAL CATHOLIC F

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SEAL



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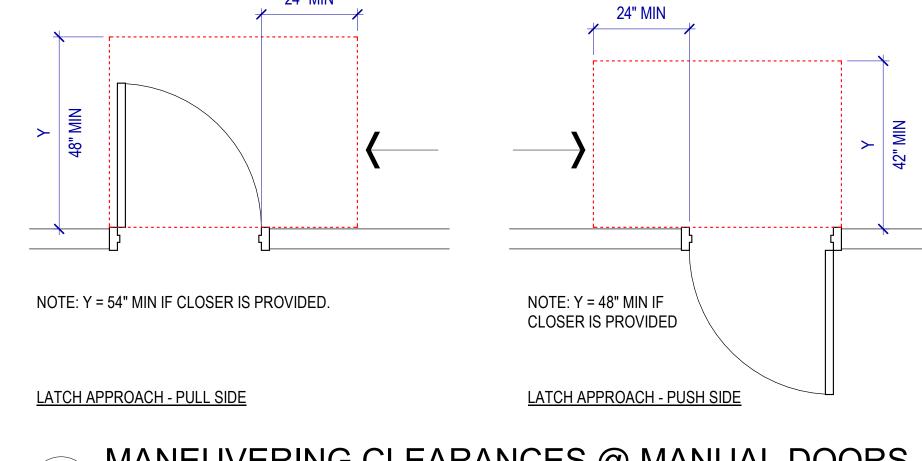
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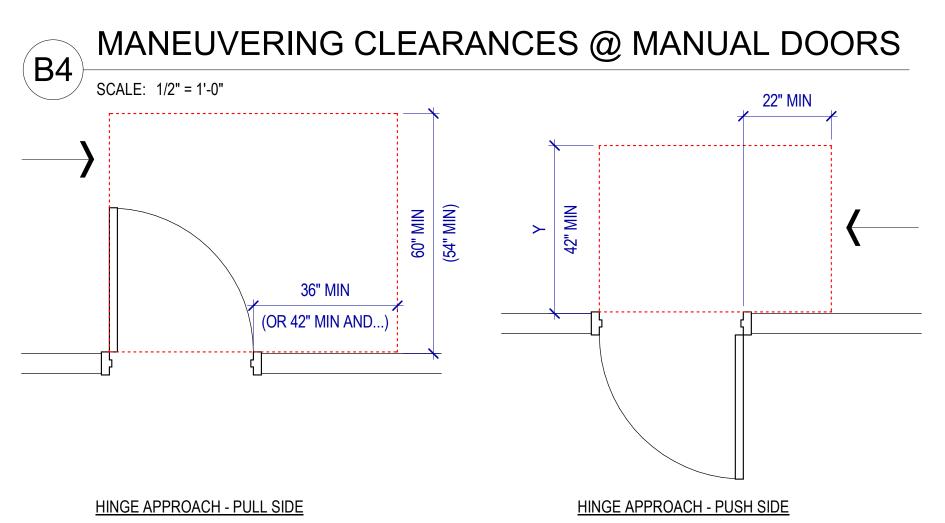
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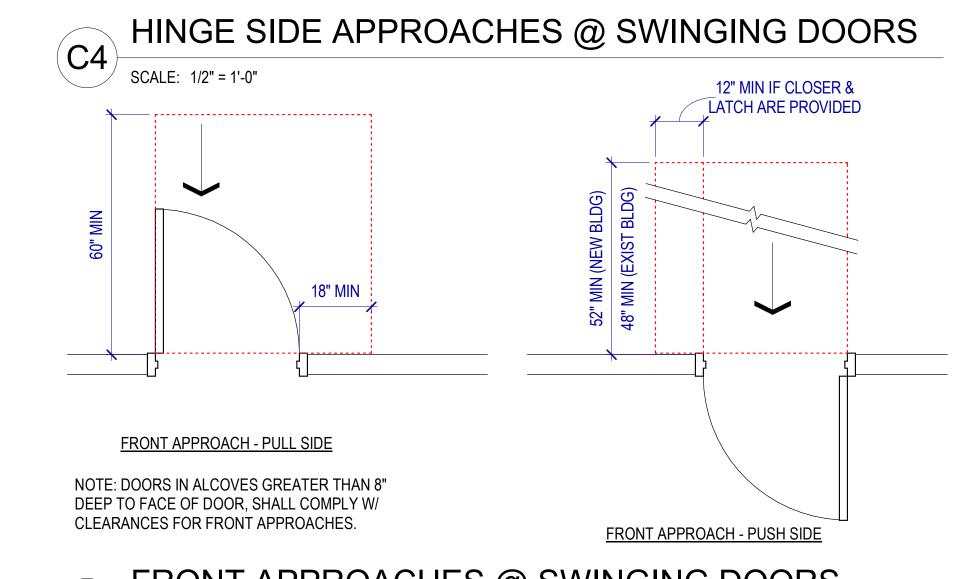
MAY 21, 2025

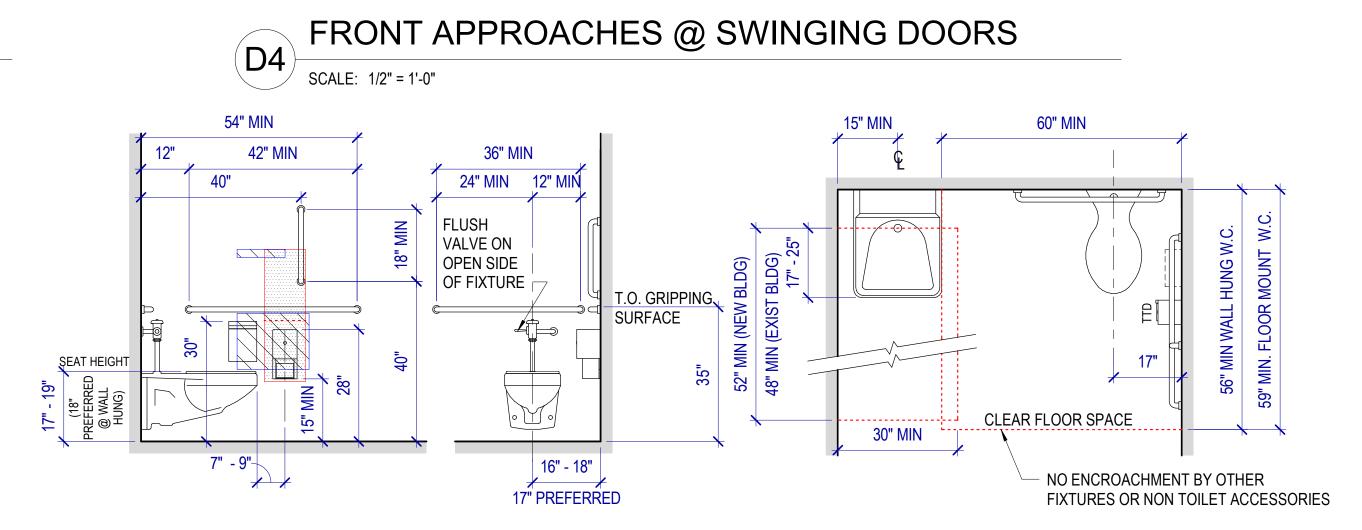
MOUNTING
HEIGHTS &
STANDARD
DETAILS

G200







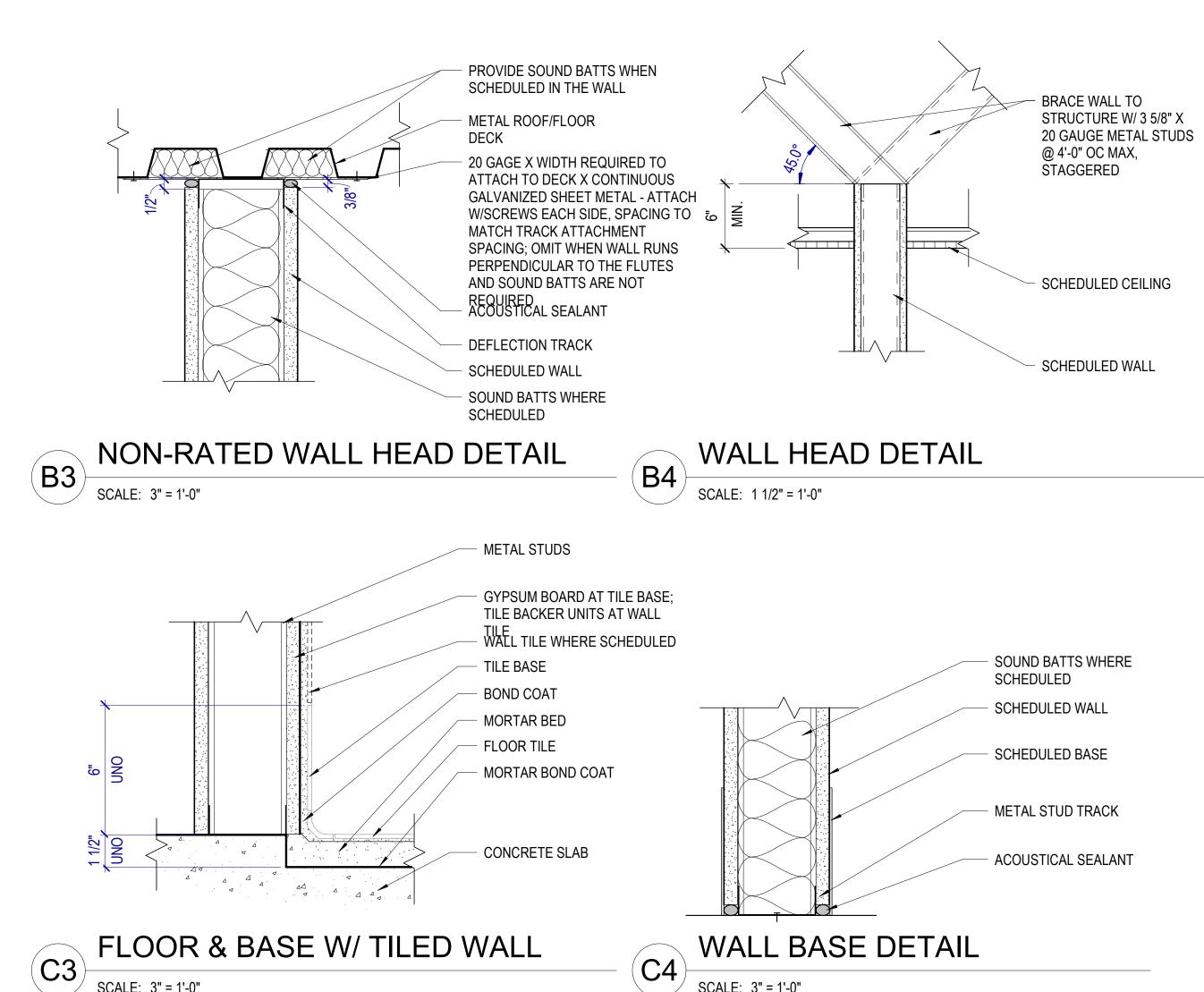






Y = 48" MIN IF BOTH CLOSER AND LATCH ARE PROVIDED.

	INTERIOR WALL TYPE SCHEDULE									
TAG		FIRE RES	ISTANCE	ACOUSTI	CAL					
MARK	DESCRIPTION	WIDTH	TERMINATION	LIMITING HEIGHT	HEAD DETAIL	BASE DETAIL	FIRE RATING	STANDARD	SOUND BATT	STC
S3A	5/8" GB + 3 5/8" MTL STUD + 5/8" GB	4 7/8"	TO DECK	16'-6"					Yes	40
S3BX	5/8" GB + 3 5/8" MTL STUD	4 1/4"	TO DECK	15'-6"					No	
S6A	5/8" GB + 6" MTL STUD + 5/8" GB	7 1/4"	TO DECK	24'-6"					Yes	41
S8A	5/8" GB + 8" MTL STUD + 5/8" GB	9 1/4"	TO DECK	24'-6"					Yes	41
S8BT	TILE + 5/8" CB + 8" MTL STUD + 5/8" CB + TILE	10 1/2"	TO DECK	24'-6"					No	41



# **INTERIOR WALL TYPE GENERAL NOTES**

RE: G500 for wall termination details which occur at metal deck/structure or at base of wall.

# Continuity:

Wall type designations imply that the walls are continuous, typically from corner to corner and until another wall type is indicated. At the intersection of walls of dissimilar sound and/or fire-resistance ratings, the wall with the more restrictive requirements shall continue through, uninterrupted and shall take precedence.

Typical Interior Wall Type: S3A, UNO.

# Glass-mat Tile Backing Board:

Where stud walls with tile finishes are scheduled, provide glass-mat tile backing board for the full height and width of the tile. Balance of wall to be gypsum board, UNO.

Acoustical Sealant: At metal stud walls with an STC rating, provide acoustical sealant at top and bottom tracks.

# Sound Attenuation Batts:

Where indicated, provide sound attenuation batts sized to fit snuggly in the wall cavity. Fill all voids in the wall, from floor to deck, including at wall intersections to prevent sound leakage into adjacent rooms.

# Metal Stud Partitions:

Extend interior walls and partitions from floor to roof deck or floor deck above, unless noted otherwise. The specifications indicate a minimum metal stud gauge; increase the gauge above the minimum as required by the metal stud manufacturer for actual wall heights, deflection criteria and code required horizontal load.

## Design requirements for metal stud walls: 5 PSF lateral load; L/240 deflection. Stud Spacing: 16" on center, unless noted otherwise.

Provide bracing at 48" OC maximum at non-composite walls (walls that don't have gypsum board full height on each side of the stud).

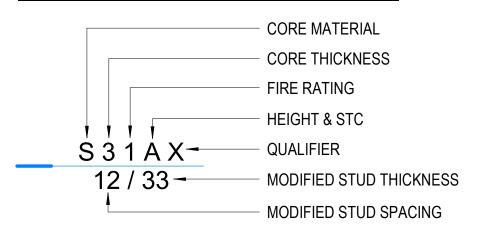
Provide control joints at 30'-0" OC maximum. If not shown, coordinate location with Architect.

# Rated Wall Identification:

Provide 3" high block letters (with 3/8" minimum stroke), stencil the fire resistance rating on the wall at 30' maximum intervals, measured horizontally and within 15' of the end of the wall. Provide one (1) label

- Locate identification in accessible concealed floor areas, if any and in the accessible space between ceiling and structure above.
- **Wall Schedule Abbreviations**
- CMU Concrete Masonry Unit GB - Gypsum Board
- GTB Glass-mat Tile Backing Board IGB - Impact-resistant Gypsum Board

# WALL TYPE TAG DESCRIPTION



# Core Material: S - Metal Stud

# Core Thickness:

Metal Studs: Number indicates metal stud thickness, rounded down where applicable

0 - 7/8" 1 - 1 5/8" 2 - 2 1/2" 3 - 3 5/8"

# 4 - 4" 6 - 6"

**Height and STC**: A - Wall is continuous to the structural deck above and includes sound batt

B - Wall is continuous to the structural deck above with no sound batt P - Wall is partial height RE: A600 for top of wall

# Asymmetric Modifiers:

X - Single side gypsum board T - Glass-mat tile backing board with tile finish

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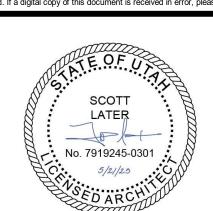
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CONSTRUCTION DOCUMENTS

INTERIOR WALL

MAY 21, 2025

**TYPES** 

G500

TERMS	AND ABBREVIATIONS	TERMS	AND ABBREVIATIONS
ABBRV	TERM	ABBRV	TERM
(#)	Numerical quantities when	(E)	Existing
	enclosed in parentheses	E	Modulus of Elasticity
		EA	Each
A/E	Architect / Engineer	EJ	Expansion Joint
AB	Anchor Bolt	EL	Elevation
ABV	Above	ELEV	Elevator
ADDM	Addendum	ENGR	Engineer
AFF	Above Finished Floor	EQ	Equal
ALUM	Aluminum	EQL SP	Equally Spaced (Equal
APPROX	Approximately		Spaces)*
ARCH	Architect (Architectural)*	EQUIP	Equipment
ASTM	American Society for Testing	EQUIV	Equivalent
	and Materials	EST	Estimate
		ETC	And so forth
B PL	Base Plate	EW	Each Way
B/B	Back to Back	EXCL	Exclude
bf	Beam Flange Width	EXP	Expansion
BLKG	Blocking	EXT	Exterior
BLW	Below		LACTION
BM	Beam	(E)	Future
BOS	Bottom of Steel	(F) FDTN	Foundation
BOT	Bottom		
BRG	Bearing	FFE	Finished Floor Elevation
BTWN	Between	FIN	Finish (Finished)*
DIVVIV	Detween	FLR	Floor
СТОС	Center to Center	FRMG	Framing
		FSE	Finished Slab Elevation
CD	Contract Documents	FTG	Footing
CIP	Cast-In-Place	FV	Field Verify
CJ	Construction Joint		
CI	(Control Joint)*	GA	Gage / Gauge
CL	Centerline	GALV	Galvanized
CMU	Concrete Masonry Unit	GLB	Glued Laminated Wood Beam
COL	Column		
CONC	Concrete	HGR	Hanger
CONN	Connection	HORIZ	Horizontal (Horizontally)*
CONT	Continuous (Continue)*	HSA	Headed Stud Anchor
CONTR	Contractor	HSS	Hollow Structural Section
COORD	Coordinate		
CTR	Center		Moment of Inertia
		ID	Inside Diameter
D	Depth	INT	Interior
d	Pennyweight Nail		
DB	Deck Bearing	JST	Joist
DBA	Deformed Bar Anchor		23.00
DBL	Double	KIP (K)	Thousand Pounds
DFS	Douglas Fir - South	KIP FT	Thousand Foot/Pounds
DIA	Diameter	1 1	
	2.0		KIPS DAT I IDAGI FOOT
DIAG	Diagonal	KLF	KIPs per Lineal Foot

Dead Load

**TERMS & ABBREVIATIONS** 

Detail

(A1) NO SCALE

TERMS	AND ABBREVIATIONS	TERMS AND ABBREVIATIONS					
ABBRV	TERM	ABBRV	TERM				
LB	Pound	SCHED	Schedule				
LHS	Left Hand Shoe	SECT	Section				
LL	Live Load	SF	Square Foot (Feet)*				
LLH	Long Leg Horizontal	SGL	Single				
LLV	Long Leg Vertical	SHTHG	Sheathing				
LONG	Longitudinal	SIM	Similar				
LSH	Long Slotted Hole(s)	SL	Snow Load				
LSL	Laminated Strand Lumber	sog	Slab on Grade				
LTWT	Lightweight	SPCL	Special				
LVL	Laminated Veneer Lumber	SPEC	Specification				
		SQ	Square				
MAX	Maximum	SSH	Short Slotted Hole(s)				
MECH	Mechanical	STD	Standard				
MFR	Manufacturer	STIF	Stiffener				
MIN	Minimum	STRUCT	Structure (Structural)*				
MISC	Miscellaneous	SYMM	Symmetrical				
WIIOC	Miscellarieous	O I WIIWI	Symmetrical				
N/A	Not Applicable	T&B	Top & Bottom				
NTS	Not to Scale	T&G	Tongue and Groove				
		THRU	Through				
OC	On Center	TO FDTN	Top of Foundation				
OD	Outside Diameter	TOB	Top of Beam				
OPNG	Opening	TOC	Top of Concrete				
OPP	Opposite	TOF	Top of Footing				
OPT	Optional	TOJ	Top of Joist				
OSB	Oriented Strand Board	TOM	Top of Masonry				
		TOP	Top of Parapet				
P/T	Pressure Treated	TOS	Top of Steel				
PERP	Perpendicular	TOW	Top of Wall				
PLF	Pounds per Lineal Foot	TWS	Threaded Welded Stud				
PSL	Parallel Strand Lumber	TYP	Typical				
PT	Post Tensioned						
		UNO	Unless Noted Otherwise				
QA	Quality Assurance						
QC	Quality Control	VERT	Vertical (Vertically)*				
(RE)	Remove Existing	W/	With				
REINF	Reinforce (Reinforced,	W/O	Without				
· \_    \	Reinforcing)*	WL	Wind Load				
REQD	Required	WLD	Weld (Welded)*				
RFI	Request for Information	WP	Work Point				
RS	Rough Sawn	WWF	Welded Wire Fabric				
RTU	Roof Top Unit	V V V V F	VVGIUGU VVIIE FADITU				
•		xs	Extra Strong				
		XXS	Double Extra Strong				

<u>NOTES</u>

1. \* CONTEXT INDICATES WHICH ABBREVIATION TERM IS IMPLIED. CONTACT ENGINEER IF MEANING IS NOT OBVIOUS.

. NOT ALL ABBREVIATIONS ARE USED. 3. MANY ABBREVIATIONS MAY BE MADE PLURAL BY ADDING AN S SUFFIX. 4. FOR ABBREVIATIONS NOT LISTED, REFER TO **US NATIONAL CAD STANDARD, VERSION** 3.1, TERMS AND ABBREVIATIONS SECTION, OR CONTACT ENGINEER.

1717\_01

Thermal Factor: Rain Intensity: Basic Wind Speed: Importance Factor: Wind Exposure: Internal Pressure Coeff:  $GCpi = 0.18(\pm)$ Seismic: Site Class: Importance Factor: Seismic Design Category: D Spectral Response Accelerations: Spectral Response Coeff: SDS = 0.995 GENERAL 1. All details, sections, and notes shown on the drawings are intended to be typical and shall apply to similar situations elsewhere unless noted or shown otherwise. Notes and details on drawings shall take precedence over these General Notes. General Notes shall take precedence over the Specifications. 2. Refer to the Specifications for information not covered by these General Notes or the Structural Drawings. 3. See the Architectural Drawings for dimensions, doors, windows, non-bearing interior and exterior walls, elevations, slopes, stairs, curbs, drains, recesses, depressions, railings, waterproofing, finishes, chamfers, kerfs, etc. 4. All design, construction, and inspection shall be in conformance with the 2021 International Building Code (IBC) including all referenced standards therein. 5. The Contractor shall verify all dimensions and conditions at the site.

STRUCTURAL DESIGN CRITERIA

DL = 25 PSF (Assumed)

V = 109 MPH (3 Sec Gust)

Pg = 35 PSF

Pf = 27 PSF

Ct = 1.0

I = 1.0

[Default D]

I = 1.25

Ss = 1.244

S1 = 0.459

SD1 = NA

 $i = 2.14 \ln/hr$ 

Risk Category:

Dead Load:

Ground Snow Load:

Flat Roof Snow Load:

Snow Exposure Factor: Ce = 1.0

Snow Importance Factor: I = 1.1

6. All omissions or conflicts between the various elements of the working drawings and/or Specifications shall be brought to the attention of the Architect and/or Structural Engineer before proceeding with any work involved. 7. The Structural Drawings shall be used in conjunction with the entire set of Construction Drawings. This means that detailing and shop drawing production for structural elements will require information that is contained on the Architectural and/or other consultants' drawings. The Structural Drawings may not show all dimensions, slopes, elevations, depressions, mechanical housekeeping pads, etc. The Contractor shall verify all dimensions that are shown on the Structural Drawings with the Architectural and/or other consultants' drawings. Any discrepancies shall be brought to the attention of the Architect and/or Structural Engineer before proceeding with any work 8. Drawings indicate the finished product. They do not indicate a method of construction. Contractor shall take all precautions necessary to protect the structure during construction. Such precautions shall include, but not be limited to, bracing, shoring for construction equipment, etc. 9. The Contractor shall be responsible for compensating the Owner for any changes made as a result of a deviation from the Contract Documents, deviation from the Specifications, faulty materials, or faulty workmanship. 10. Options are for the Contractor's convenience. The Contractor shall be responsible for coordinating all required design changes. Cost associated with any design work initiated by the option shall be borne by the Contractor. 11. Contractor shall be responsible for safety and protection within and adjacent to the job site. 12. Temporary shoring and bracing shall be provided wherever necessary to support all loads to which the structure may be subjected including wind and soil loads. Such bracing shall be left in place as long as may be required for safety or until all structural elements are complete 13. During and after construction the Contractor and/or Owner shall keep loads on the structure within the limits of the design loads. 14. Observation visits to the job site by field representatives of Calder Richards Consulting Engineers shall neither be construed as inspection nor approval of 15. Sizes, locations, and anchorages of equipment shall be verified in the field with equipment manufacturers (suppliers) prior to placing concrete or fabricating 16. Thermal or moisture protection, furnishings, doors, windows, equipment, mechanical, electrical, finishes, siding, paneling, and veneers are not part of the responsibility of the Structural Engineer. SHOP DRAWING SUBMITTALS 1. Contractor shall review and verify all Shop Drawings to ensure they comply with the requirements of the Contract Documents. Engineer will review the Shop Drawings for general conformance with the design concept. This review by the Engineer shall not be construed as approval. The Contractor shall verify all shop drawing dimensions with Structural and Architectural plans and 2. Provide Shop Drawings to the Engineer for review for the following, but not A. Wall Reinforcement B. Structural Masonry Elements C. Structural Steel 3. Refer to the Architectural Drawings for Shop Drawing submittals required for non-structural elements. STRUCTURAL OBSERVATION Calder Richards Consulting Engineers shall be notified by the Contractor 5 business days before the completion of the items listed in this section so that Structural Observation may be scheduled and performed in accordance with IBC Section 1704.6. The observations will be performed at the discretion of Calder Richards Consulting Engineers. 1. After masonry block and reinforcement in place for first lift (before grouting). 2. After steel lintels are in place (before covering). REINFORCING STEEL 1. All reinforcement shall be detailed and placed in accordance with ACI Detailing Manual 315R (Current Version) and ACI Standard 318 (Current Version). 2. Reinforcing steel shall be ASTM A615 Grade 60 3. Welded wire fabric shall conform to ASTM A185. Lap one mesh tie. 4. All reinforcement shall be securely tied and held in place. 5. Provide accessories recommended by the CRSI necessary to properly support reinforcing at positions shown on plans. 6. Reinforcing bars that are to be welded, including Deformed Bar Anchors (DBA) shall comply with ASTM A706 or another weldable grade and shall be welded in accordance with the AWS recommendations. 7. All continuous reinforcement shall terminate with a 90 degree turn or a separate corner bar. All splices shall have a minimum lap or embedment per Reinforcing Schedule. 8. Where the length of a bar is given and it is to be hooked, the hook shall be in addition to the length given, unless shown otherwise. 9. Cover to main reinforcement from adjacent surfaces shall be as follows unless shown otherwise: A. Cast against and permanently in contact with ground .... B. Exposed to weather or in contact with ground (#6 and larger) .. C. Exposed to weather or in contact with ground (#5 and smaller) .. D. Not exposed to weather or in contact with ground (slabs, joists, and walls #11 and smaller) ... E. Not exposed to weather or in contact with ground (beams, columns, pedestals and tension ties)........... 1-1/2" F. In all cases minimum cover shall not be less than the diameter of adjacent bars. 10. Prior to fabrication and placement, Shop Drawings for all reinforcing steel shall be reviewed by the Structural Engineer.

MASONRY (CMU AND ATLAS BRICK) SPECIAL INSPECTION - STEEL CONSTRUCTION 1. Concrete masonry units shall be mediumweight (105 PCF - 125 PCF), (IBC 1705.2) Grade N units conforming to ASTM Designation C90 and shall have a minimum compressive strength of 2000 PSI on the net section NSPECTION TASKS PRIOR TO WELDING (Design strength, f'm = 2000 PSI). (AISC 360-16, TABLE N5.4-1; AISC 341-16, TABLE J6.1) 2. Hollow clay brick units (Atlas Brick) shall be Grade 1 brick units conforming to Welder qualification records and continuity records ASTM Designations C652 and shall have a minimum compressive strength of elding procedure specifications (WPSs) available 8250 PSI on the net section (Design strength, f'm = 3000 PSI). Manufacturer's certification for welding consumables available 3. Mortar shall conform to ASTM C270, Type "S" (Section 2103.2 of the Material identification (Type / Grade) International Building Code). Use Portland Cement, Type I or II. Follow the Welder identification system **◄**(B) proportion method of ASTM C270. Fit-up of groove welds (including joint geometry) Fit-up of fillet welds 4. All masonry shall be reinforced with both horizontal and vertical reinforcement. Checking welding equipment All grouted block cells or brick cavities with reinforcement shall be grouted full using 3000 PSI. Grout shall conform to the requirements of ASTM C476. INSPECTION TASKS DURING WELDING Cells shall be aligned to preserve unobstructed vertical cavities of 2"x3" (AISC 360-16, TABLE N5.4-2; AISC 341-16, TABLE J6.2) Control and handling of welding consumables 5. Grout shall have 3/8" maximum size coarse aggregate with a slump between No welding over cracked tack welds 8 and 11 inches so the concrete will flow into the block cells without leaving nvironmental conditions Welding procedure specification followed Welding techniques 6. All horizontal reinforcing at ends of walls shall terminate with a hook around vertical reinforcing. INSPECTION TASKS AFTER WELDING Reinforcement Protection (Cover): (AISC 360-16, TABLE N5.4-3; AISC 341-16, TABLE J6.3) A. Joint reinforcement shall have not less than 5/8" mortar Welds cleaned coverage from the exposed face. Size, length, and location of welds B. Other reinforcement shall have a minimum coverage between Welds must meet visual acceptance criteria the face shell and the bar of one bar diameter over all the bars, but not less than 3/4" when masonry is exposed to weather or soil. Repair activities Document acceptance or rejection of welded joint or member Minimum coverage shall be 2" from the outside face of masonry. No prohibited welds have been added without approval of the EOR 8. Stop grout pours 1/2" below top of block units between grout lifts. 9. All anchor bolts must be placed in grouted cells. INSPECTION TASKS PRIOR TO BOLTING 10. An additional vertical bar (matching wall reinforcement) shall be placed at (AISC 360-16, TABLE N5.6-1; AISC 341-16, TABLE J7.1) each corner, end of wall, and jamb of all openings. Manufacturer's certifications available for fastener materials 11. All steel joist, joist girder, and steel beam pockets in masonry shall be Fasteners marked in accordance with ASTM requirements

grouted solid unless otherwise indicated on the drawings

protection of the masonry for a period of at least 48 hours.

200 bar diameters. Provide wire ties at all lap splices.

shapes shall be ASTM A36, unless noted otherwise.

drawings). Use 3/4" diameter minimum.

the Turn-of-Nut method may also be used.

Specification for Wood Construction:

diameter smaller than that of the nails.

in IBC unless noted otherwise in drawings.

and solid grouted masonry connections.

comprehensive installation instructions.

to the owner.

with galvanized framing anchors.

the Structural Engineer.

2304.10.6 of the IBC.

DRILL & EPOXY ANCHORS

STRUCTURAL STEEL

Stress = 35 KSI.

WOOD FRAMING

"Code of Standard Practices".

12. No masonry shall be laid when the temperature of the outside air is below

construction to prevent damage to the masonry. Such methods shall include

13. All reinforcing shall be in place prior to grouting. Vertical reinforcing bars shall

be held in position at the top, bottom and at intervals not farther apart than

1. All structural steel and structural steel work shall comply with the AISC "Steel

Construction Manual" (Current Version) containing the specifications for the

design, fabrication and erection of structural steel buildings, including the

3. Structural steel tubing shall conform to ASTM A500 Grade C; Yield Stress = 50

2. All wide flange structural steel shall be ASTM A992 and all miscellaneous

4. Structural steel pipe columns shall conform to ASTM A53, Grade B: Yield

5. Use A325 Bolts for steel-to-steel connections, F1554 GR36 for Anchor Bolts,

and A307 Bolts for all other connections (unless specified otherwise on

6. All welds shall be made with E70XX electrodes and by welders certified by

foot-pound at 0° F, unless noted otherwise on the plans.

AWS Standards within the past 12 months; provide written certification if

7. All high-strength bolts shall be tightened to the appropriate minimum bolt

1. Structural framing lumber shall be clearly marked and meet the following

A. 2" to 4" thick, 5" and wider: Douglas Fir-Larch Grade No.2

2. Holes for nails, where necessary to prevent splitting, shall be bored of a

3. All joists and beam hangers, framing anchors, strap ties, and other metal

4. Unless noted otherwise, anchor all trusses, rafters and joists to supports

5. Nails and staples shall comply with the requirements of ASTM F 1667.

6. Substitutions of structural wood framing members from those shown on the

7. All fasteners and connectors that will be in contact with preservative-treated

and fire-retardant-treated wood shall adhere to the requirements in Section

8. Provide wood framing connections per Fastening Schedule in Table 2304.10.2

1. Use HILTI HIT-HY 200 adhesive system or approved equivalent for concrete

2. Use HILTI HIT-HY 270 adhesive system or approved equivalent for all hollow

3. Anchor rods shall be ASTM F1554 Grade 36 (unless noted otherwise in

4. Provide screen tubes for ungrouted masonry units or unreinforced masonry

5. Anchor capacity is dependent upon spacing between adjacent anchors and

proximity of anchors to edge of concrete. Install anchors in accordance with

6. Substitution requests for alternate products must be approved in writing by the

Structural Engineer prior to use. The contractor shall provide calculations

demonstrating the substituted product is capable of achieving the performance

values of the specified product. Substitutions will be evaluated by the product

having an ICC-ES report showing compliance with the relevant building code

provide onsite installation training for all of their anchoring products specified.

The contractor shall provide the engineer with documentation showing their

manufacturer's specified allowable load. If any anchor fails it shall be replaced

and retested at no additional cost to the owner. If an anchor fails, 100% of all

other anchors installed by that same crew shall be tested at no additional cost

for seismic uses, load resistance, installation category, and availability of

7. The contractor shall arrange for an anchor manufacturer's representative to

personnel have received training prior to commencement of work.

8. Ten percent of all anchors placed shall be randomly tested to 100% of

drawings) with diameter indicated, threaded and galvanized.

spacing and edge clearances indicated on the drawings.

unit CMU connections and unreinforced masonry walls, including multi-wythe

structural drawings will not be accepted without prior written approval from

fasteners for wood framing shall be Simpson brand (or approved equivalent).

minimum grades as defined by the current version of the National Design

tension in accordance with AISC "Specifications for Structural Joints using

ASTM A325 or A490 Bolts." The preferred method of tightening is by use of

"Twist off type tension control bolt assemblies." "Direct Tension Indicator" and

requested. All welds shall have a minimum Charpy V-Notch toughness of 20

40 degrees Fahrenheit, unless approved methods are used during

SPECIAL INSPECTION - MASONRY CONSTRUCTION (IBC 1705.4, TMS402, 602) R/C/P ◀(A) QUALITY ASSURANCE (TMS 602-16, TABLE 3, TABLE 4) MINIMUM VERIFICATION Prior to construction, verification of compliance of submittals. Prior to construction, verification of f'm, except where specifically exempted by the MINIMUM INSPECTION As masonry construction begins, verify that the following are in compliance: A. Proportions of site-prepared mortar B. Grade, type, and size of reinforcement, connectors and anchor bolts Sample panel construction Prior to grouting, verify that the following are in compliance: A. Grout space B. Placement of reinforcement, connectors, and anchor bolts C. Proportions of site-prepared grout and prestressing grout for bonded /erify compliance of the following during construction: A. Materials and procedures with the approved submittals B. Placement of masonry units and mortar joint construction C. Size and location of structural members D. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other constructions E. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F (4.4°C)) or hot weather (temperature above 90°F Placement of grout Observe preparation of grout specimens, mortar specimens, and/or prisms TABLE NOTES: (A) R denotes required. Continuous or periodic (C/P) refers to the frequency of inspection, which may be continuous during the task listed or periodically during the listed task, as defined in the table.

welder who has welded a joint or member can be identified. Stamps, if used, shall

# C/P **◄**(A) Correct fasteners selected for the joint detail (Grade / Type / Bolt Length / If threads are to be excluded from shear plane) Correct bolting procedure selected for joint detail Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements INSPECTION TASKS DURING BOLTING (AISC 360-16, TABLE N5.6-2; AISC 341-16, TABLE J7.2) Fastener assemblies, placed in all holes and washers and nuts are positioned as Joint brought to the snug-tight conditions prior to the pre-tensioning operations Fastener component not turned by the wrench prevented from rotating Fasteners are pre-tensioned in accordance with the RCSC specification, progressing systematically from the most rigid point toward free edges NSPECTION TASKS AFTER BOLTING (AISC 360-16, TABLE N5.6-3; AISC 341-16, TABLE J7.3) Document acceptance or rejection of bolted connection OTHER STEEL INSPECTIONS (AISC 360-16, SECTION N5.7 AND N5.8) Structural steel details Anchor rods and other embedments supporting structural steel TABLE NOTES: ► (A) Continuous or periodic (C/P) refers to the frequency of inspection, which may be continuous during the task listed or periodically during the listed task, as defined in the table. ► (B) The fabricator or erector, as applicable, shall maintain a system by which a

ARCHITECTS

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www.crceng.com

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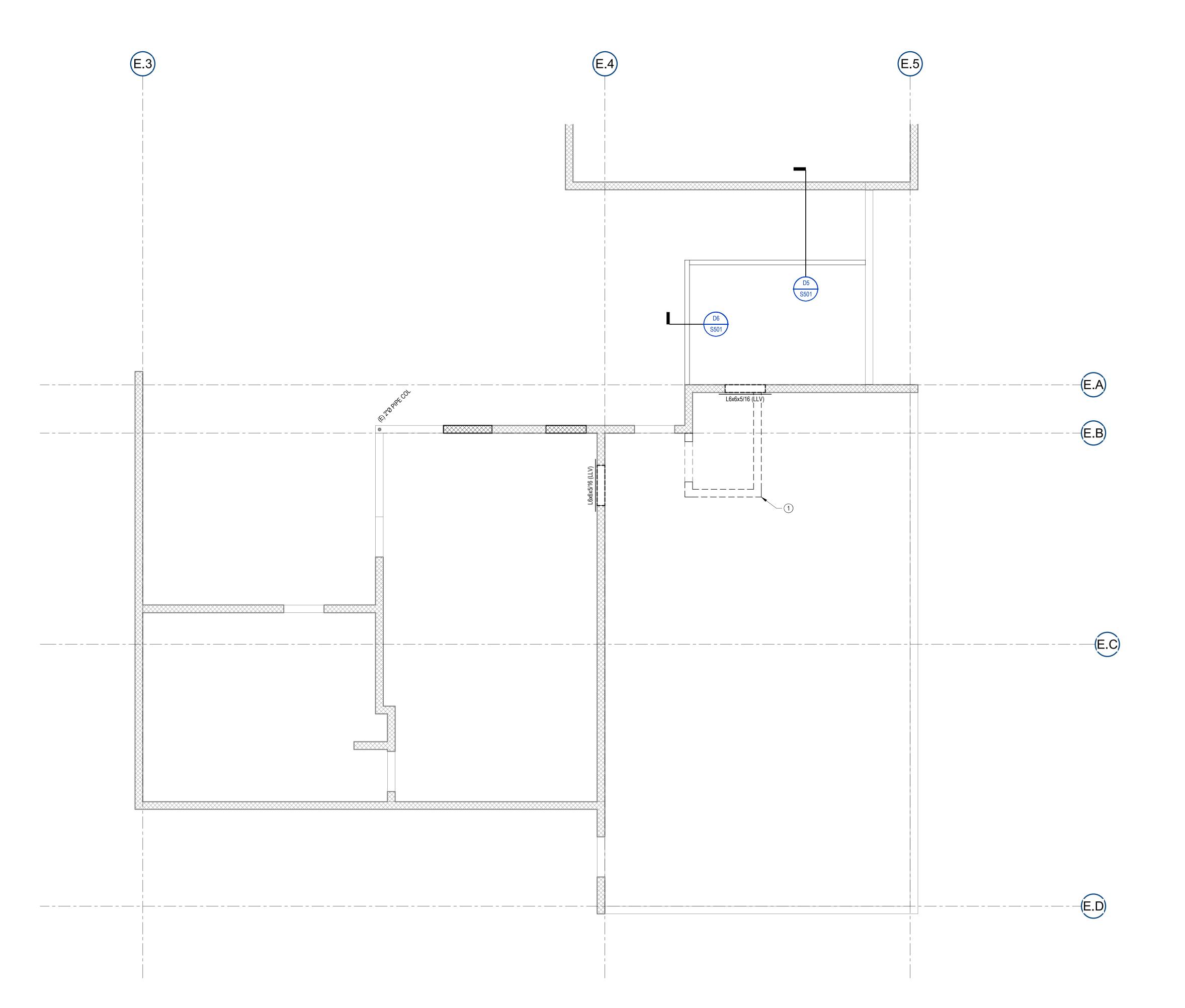


MHTN PROJECT NO. 2024579

Original drawing is 30 x 42. Do not scale contents of this drawing. REVISIONS CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT NO.△ DATE DESCRIPTION

CONSTRUCTION DOCUMENTS MAY 20, 2025

STRUCTURAL **GENERAL NOTES** 



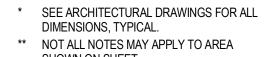
1 3

Structural Floor Plan

1/4" = 1'-0"

# **PLAN NOTES**

# NUMBERED NOTES BELOW ARE KEYED ON PLAN.



- NOT ALL NOTES MAY APPLY TO AREA SHOWN ON SHEET.
- A SEE STRUCTURAL NOTES ON SHEET S001
   FOR ADDITIONAL INFORMATION.
   B (E) DENOTES EXISTING STRUCTURE. ALL
   EXISTING CONDITIONS SHALL BE FIELD
   VERIFIED.
- VERIFIED.

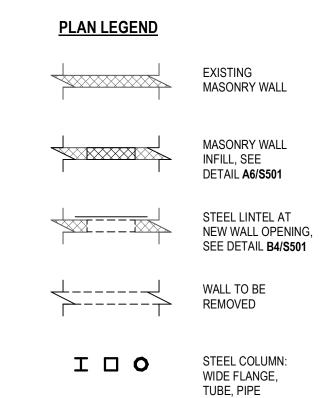
  C SEE DETAIL C5/S501 FOR OPENINGS IN ROOF DECK.

1 FIELD VERIFY ROOF BEAM DOES NOT BEAR ON MASONRY WALL PRIOR TO DEMOLITION. NOTIFY ENGINEER IF OTHERWISE.



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J.E. COSGRIFF

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MAY 20, 2025

STRUCTURAL FLOOR PLAN

S101



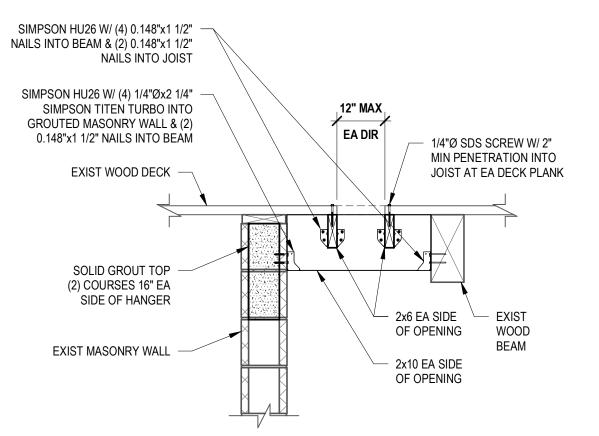


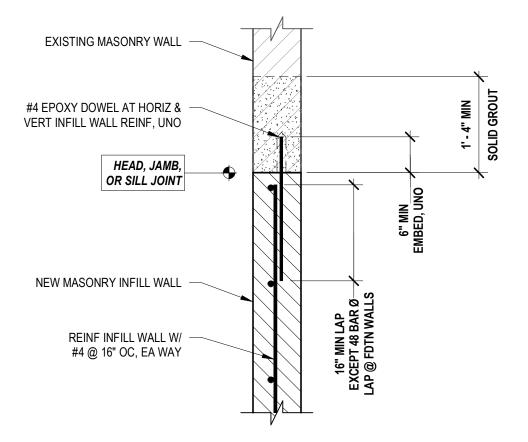
(2) 800S162 + (2) 362T125 -- STIFF CLIP LB600 OR EXIST STEEL -BOX HEADER, BEARING **EQUIVALENT EA SIDE** BEAM W/ 600T125 + 600S165FASTENED TOGETHER (2) #9x1 1/2" SD WOOD -ON BEAM BOTT FLANGE WOOD NAILER SCREWS STAGGERED 1" IN STIFF CLIP LB600 -- 0.157"Ø x 1" PAF EA DECK PLANK IN PRE-W/ #8 SCREWS @ 16" OC OR EQUIVALENT @ 8" OC (1) PER EXIST 2x6 -EXIST 2x6 -DRILLED TRACK HOLES EA SIDE MASONRY CELL, ROOF DECK ROOF DECK STAGGERED 2" STIFF CLIP LB600 362T125-43 W/ — #8 SCREWS OR EQUIVALENT - FIELD VERIFY SOLID GROUTED - 600T125-43 + EXIST STEEL BEAM 600S165-43 FASTENED (4) #8 SCREWS -- 362S162-33 @ 32" OC 362T125-43 W/ -TOGETHER W/ #8 SCREWS @ 16" OC #8 SCREWS EA SIDE 362S162-33 @ 16" OC -(4) 0.145"Ø x 9/16" MIN PAF 362S162-33 @ 16" OC — - 362T125-43 + 362S162-43 @ 16" OC, FASTENED TOGETHER W/ - 362S162-33 @ 32" OC (3) #8 SCREWS, TYP (3) #8 SCREWS, TYP — (4) #8 SCREWS EA SIDE - (2) #8 SCREWS @ 16" OC INTO BOX HEADER - EXIST MASONRY WALL STOREFRONT -SYSTEM, SEE STOREFRONT -SYSTEM, SEE ARCH DWGS

NEW STOREFRONT PARALLELTO DECK
3/4" = 1'-0"

ARCH DWGS







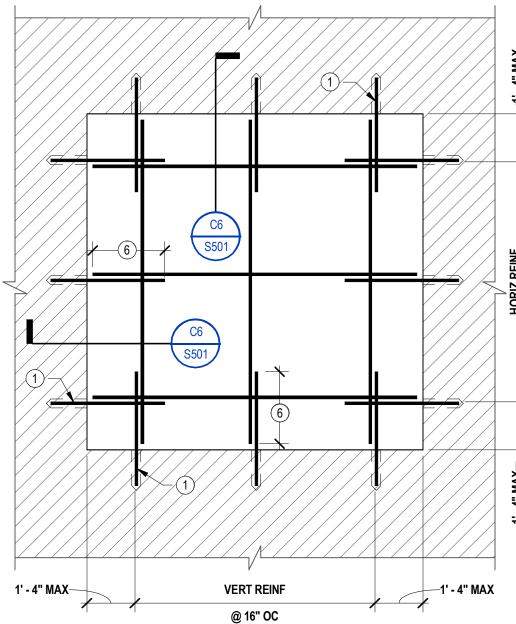
ROOF OPENING IN WOOD DECK
3/4" = 1'-0"

GROUT (2) CELLS SOLID IF NOT SOLID GROUTED EXIST MASONRY WALL TO REMAIN

- #3 x 2'-0" DOWELS @ 16" OC



ROUND CORNER W/ — BULLNOSE GRINDER STEEL ANGLE PER PLAN, W/ 3/4"Ø EPOXY BOLTS @ 24" OC. GROUT (2) CELLS SOLID BEYOND OPENING. PARTIALLY SAWCUT CMU AND PLACE ANGLE BEFORE REMOVING MASONRY FOR OPENING, TYP <u>DETAIL</u> (A) NOTE: DRY PACK ALL GAPS BETWEEN NEW STEEL AND EXISTING MASONRY WITH GROUT. **BOTTOM ANGLE AT** WINDOW OPENING ONLY. COPE HORIZ LEG AT JAMB. DO NOT CUT INTO JAMB.



NEW OPENING IN MASONRY WALL
NO SCALE

EXIST CONC -SLAB ON GRADE CONC SLAB ON GRADE W/ #3 BARS @ 16" OC EA WAY

─ #4 x CONT

MASONRY INFILL NOTES

CIRCLED NOTES ARE KEYED TO DETAIL ABOVE

- 1 DOWELS TO MASONRY WALLS MUST BE EPOXY SET (NO EXPANSION ANCHORS) IN DRILLED HOLES 6" DEEP, MIN. DOWELS TO CONCRETE FOUNDATION WALLS MUST BE EPOXY SET IN DRILLED HOLES 12" DEEP, MIN. 2. ALL EXISTING ADJACENT MASONRY HEAD, SILLS, AND JAMBS SHOULD BE GROUTED
- SOLID. NOTIFY ENGINEER IF VOID CELLS ARE ENCOUNTERED. 3. AT DOWELS TO HEAD AND JAMBS, REMOVE INSIDE FACE SHELLS OF MASONRY UNIT, DRY PACK REINFORCED CELL AND SOAP ON INSIDE FACE OF MASONRY UNIT. 4. REFER TO STRUCTURAL NOTES FOR OTHER MASONRY REQUIREMENTS. 5. WHERE EXISTING STEEL COLUMNS OR BEAMS ARE ENCOUNTERED, WELD A706
- REINFORCING DOWELS TO STEEL ELEMENT. 6 HORIZONTAL JAMB DOWELS AND VERTICAL HEAD DOWELS MUST LAP WALL REINFORCING A MINIMUM OF 12".



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REVISIONS CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

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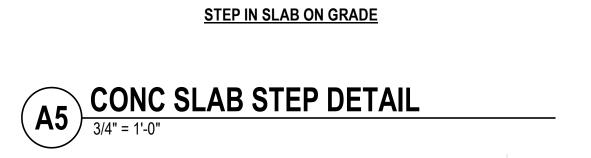
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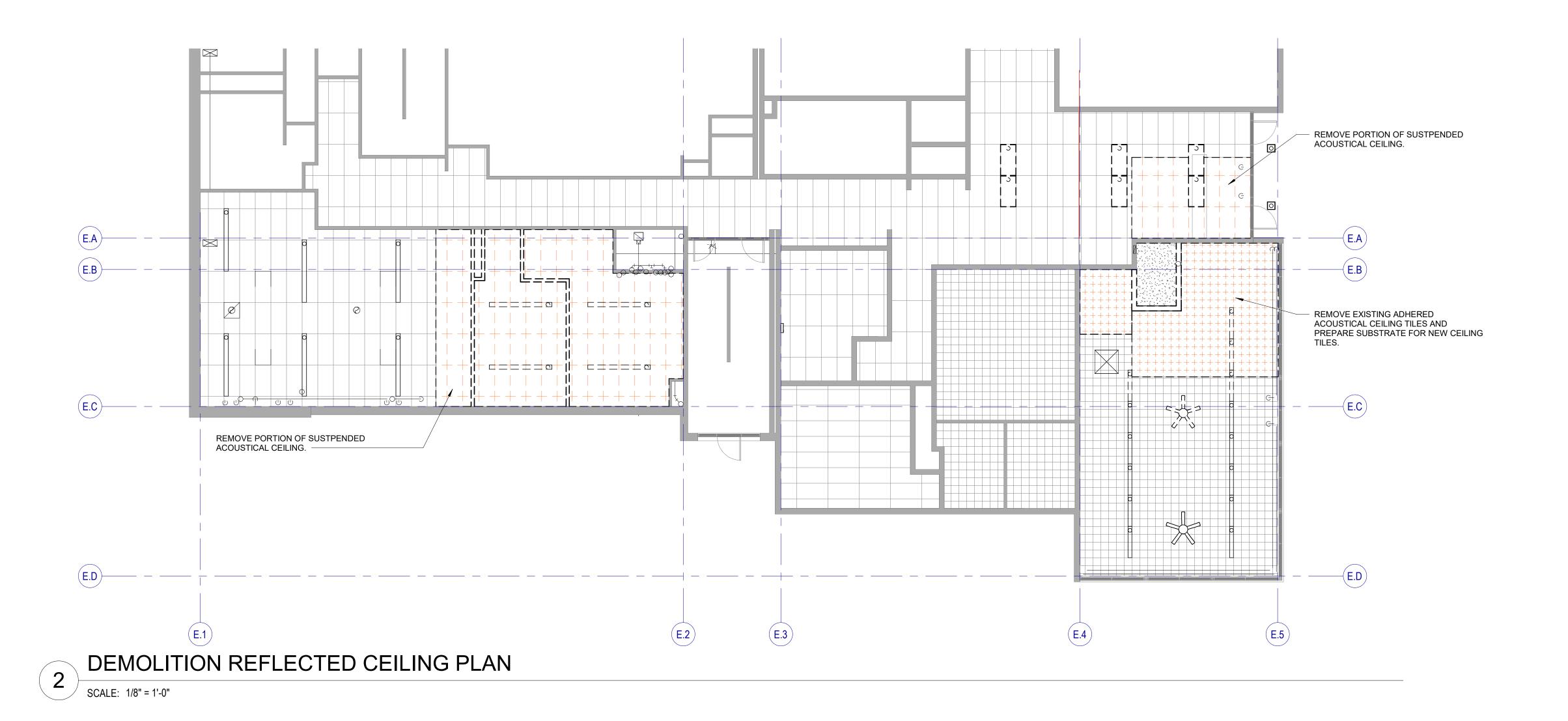
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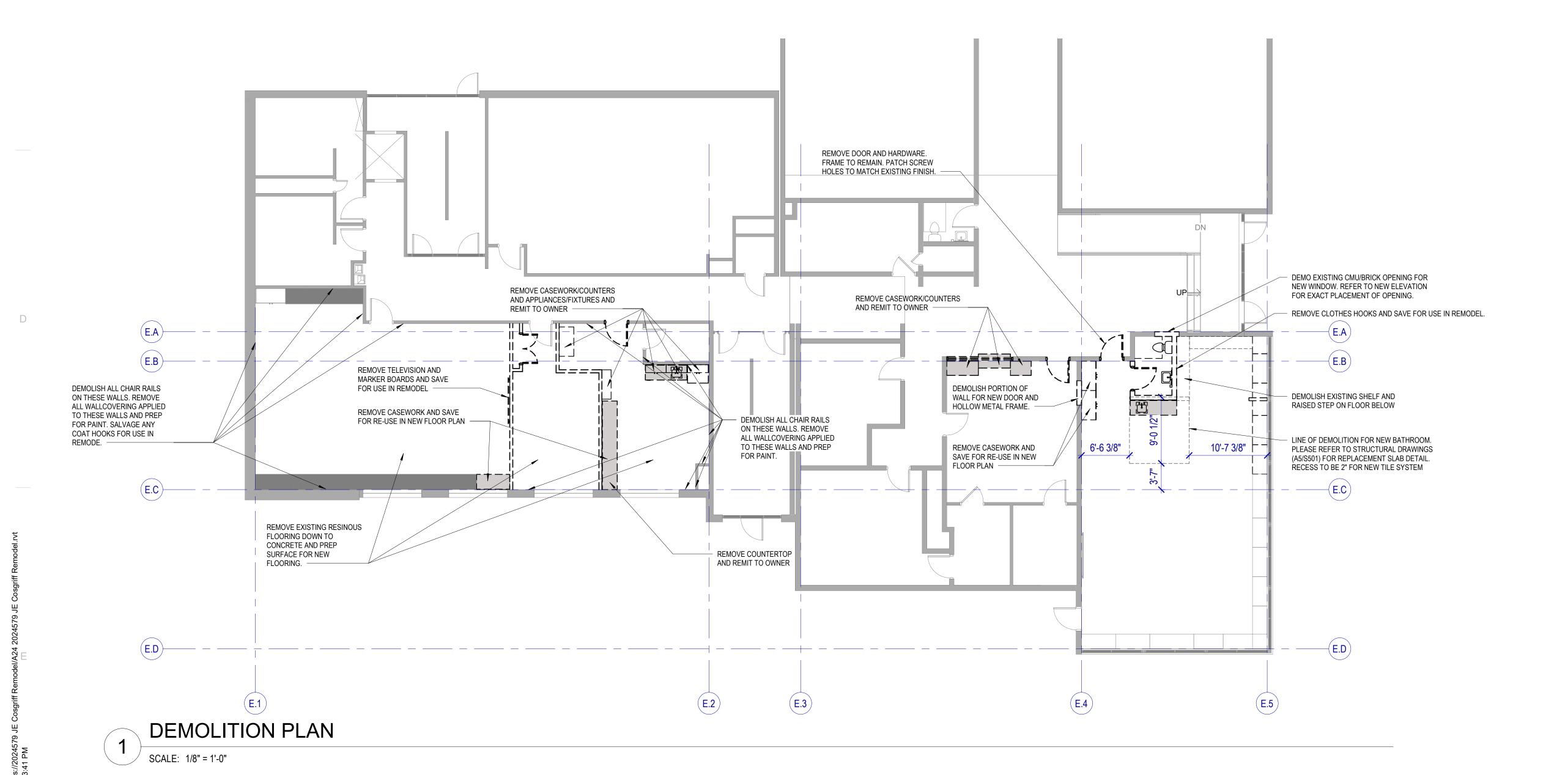
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CONSTRUCTION DOCUMENTS MAY 20, 2025

SHEET NAME STRUCTURAL **DETAILS** 







3

# **DEMOLITION GENERAL NOTES**

Existing Conditions: Verify existing site and building conditions including but not limited to underground utilities and service lines, irrigation lines, sub-surface structures and all other existing construction both above and below grade.

Protection: Protect existing construction to remain from damage during demolition and new construction work. Repair any damage resulting from this work.

Protect in-place, existing mechanical, plumbing and electrical systems above ceilings that are not shown to be removed. This includes, but is not limited to: network cabling, coax cabling, conduits, piping, ductwork,

When removing concrete slabs on grade, take all necessary precautions to protect electrical lines in or under those slabs.

**Site Access:** Coordinate phased access to the site with the Owner, including times of restricted access. **Coordination:** Coordinate extent of walls to be removed with architectural floor plan(s).

Masonry Walls: Where masonry walls are demolished, clean and repair newly exposed surfaces to match adjacent wall finish.

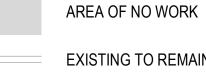
Salvage: Review with the owner, casework, furniture, equipment and wall mounted display surfaces left behind after owner move out, that are not shown on drawings. Identify as either salvage or to be disposed of by contractor.

Where indicated to be removed, salvage whiteboards and tack boards for reuse, UNO.

Where indicated to be removed, salvage undamaged acoustical ceiling panels for use in repair, patching and modifications of existing ceilings. Use only in ceilings where panels match.

Verify that existing equipment that is to remain, to be salvaged or to be re-installed, is in working condition. Provide written documentation to the Owner for any items that are not in working condition before beginning work in the area.

# **LEGEND - DEMOLITION**



EXISTING TO REMAIN

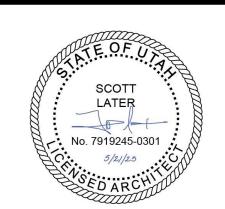


NOTE: WHERE WALLS, CEILINGS AND OTHER ITEMS ARE SHOWN WITH DASHED LINES, WHETHER KEYNOTED OR NOT, REMOVE THESE ITEMS TO THE EXTENT INDICATED AND AS REQUIRED BY NEW CONSTRUCTION.



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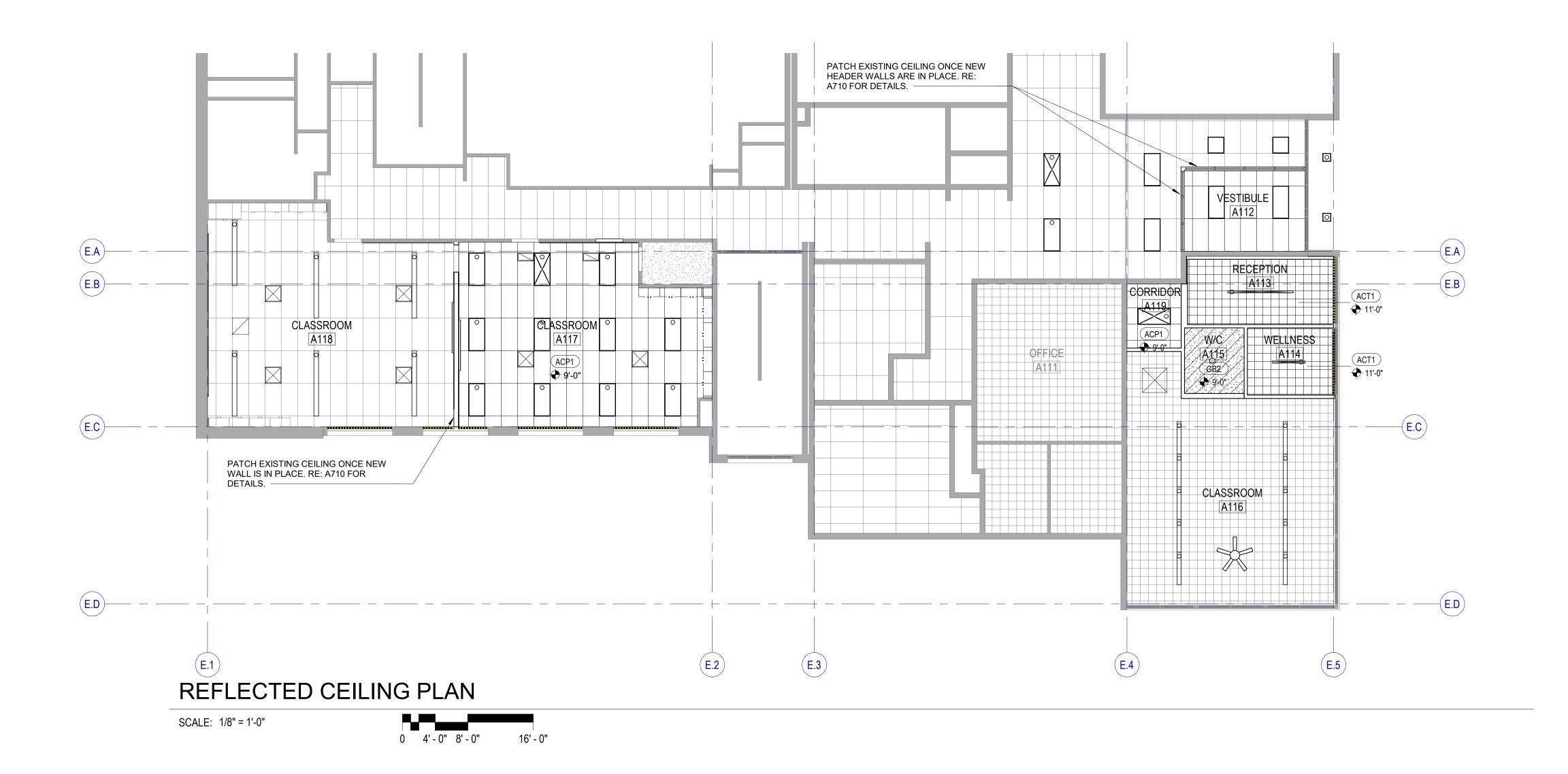


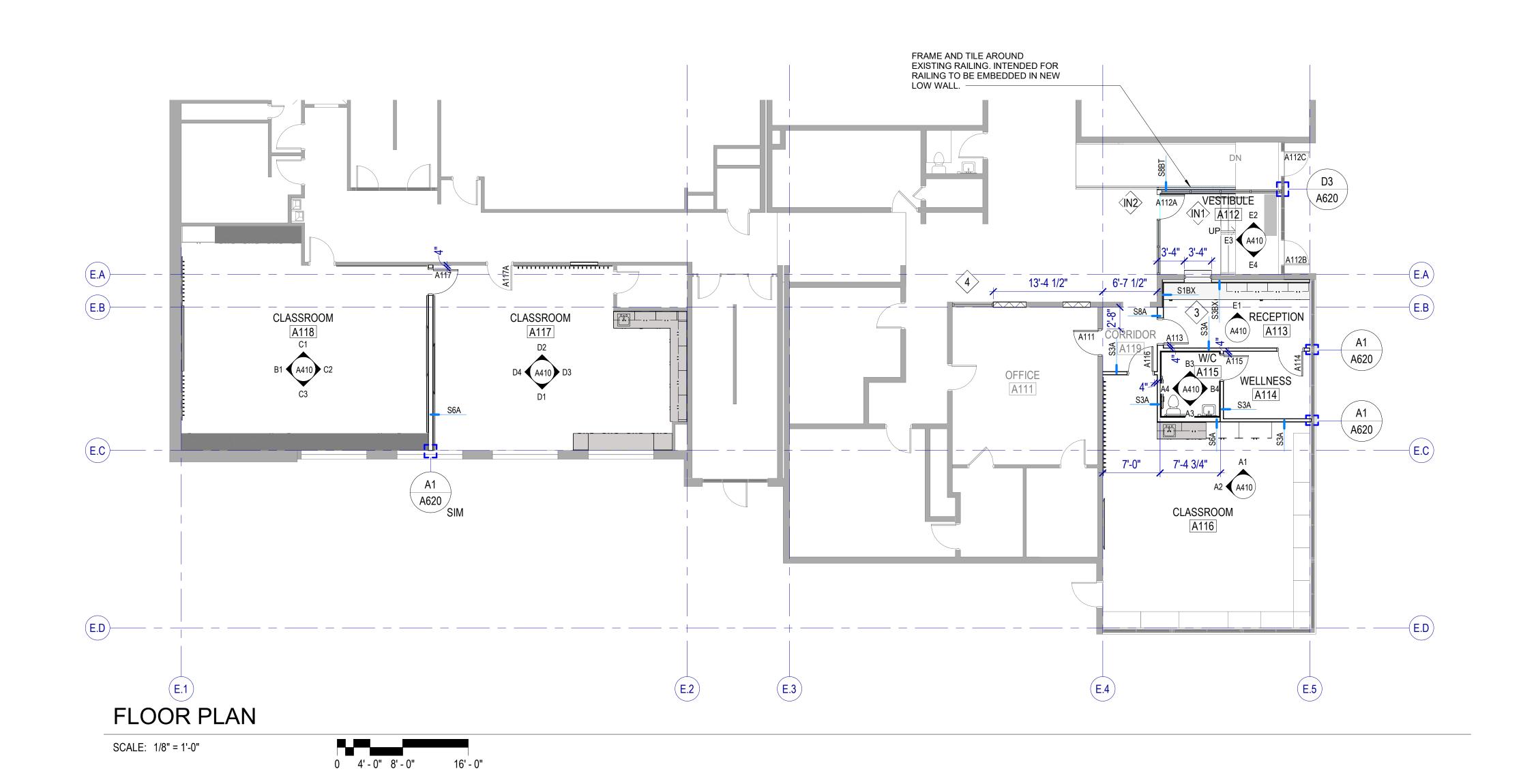
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REVISIONS CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE. NO. A DATE

CONSTRUCTION DOCUMENTS MAY 21, 2025

DEMOLITION PLAN





# REFLECTED CEILING PLAN GENERAL NOTES

RE: A710 for typical suspended ceiling details, including seismic bracing.

**Ceiling Grid/Panel Alignment:** The design intent of the Reflected Ceiling Plans is center ceiling grids or acoustical panels between walls in both directions, or to center grids in one direction, panels in the other. If the grid does not comply with the design intent, then coordinate with Architect to adjust the ceiling layout prior to installation.

Seismic Design Category: D: Heavy-duty suspension system required / Refer to Structural / Refer to Specifications.

Seismic Bracing: Rigid bracing required at ceilings over 1,000 SF and at all ceilings with fire sprinklers and other penetrations.

Seismic Control Joints: Provide seismic control joints in suspended acoustical ceilings greater than

Control Joints: Provide control joints in gypsum board ceilings at 30'-0" max spacing. Coordinate locations with Architect to align joints with other elements in the ceilings or on the walls.

Exposed Elements: Paint exposed structure, pipe, conduit and HVAC duct at open ceilings and at open areas around ceiling clouds. Color: As selected by Architect.

Walls to Deck: Extend all walls to deck, including all components of the wall assembly, UNO.

Fire Sprinklers: Center sprinkler heads in acoustical panels; run in straight lines in orthogonal, rectangular spaces.

Electrical, Mechanical and other Devices: Center in acoustical panels. Coordinate feature lighting layout with Architect prior to rough-in.

# LEGEND - REFLECTED CEILING PLANS

ACP1 - 24" X 48" ACOUSTICAL CEILING PANEL
ACT1 - 12" X 12" ADHEREDACOUSTICAL CEILING PANEI
GB1 - EPOXY PAINTED GYPSUM BOARD
MECHANICAL DIFFUSERS SEE MECHANICAL
LIGHT FIXTURES SEE ELECTRICAL
MANUAL ROLLER SHADE

# **FLOOR PLAN GENERAL NOTES**

References to sheets below are provided to aid in navigating the drawings.

RE: G200 for Fixture Mounting Heights.

RE: G500 for Interior Wall Types.

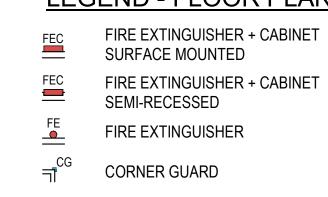
RE: A600 for the Door Schedule.

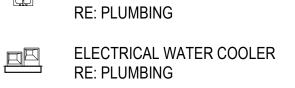
RE: A620 drawings for Window Types.

RE: Structural drawings for slab recesses.

Rated Construction: Provide as shown on the plans, the Life Safety Plans and elsewhere in the documents. Seal penetrations with systems applicable to the application and that have UL or other testing agency certifications.

# **LEGEND - FLOOR PLAN**





WALL HUNG LAVATORY

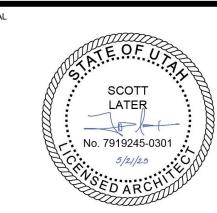
MARKERBOARD, OFCI

NOTE: PROVIDE ITEMS INDICATED IN THE LEGEND IN THE QUANTITIES SHOWN ON THE PLAN.



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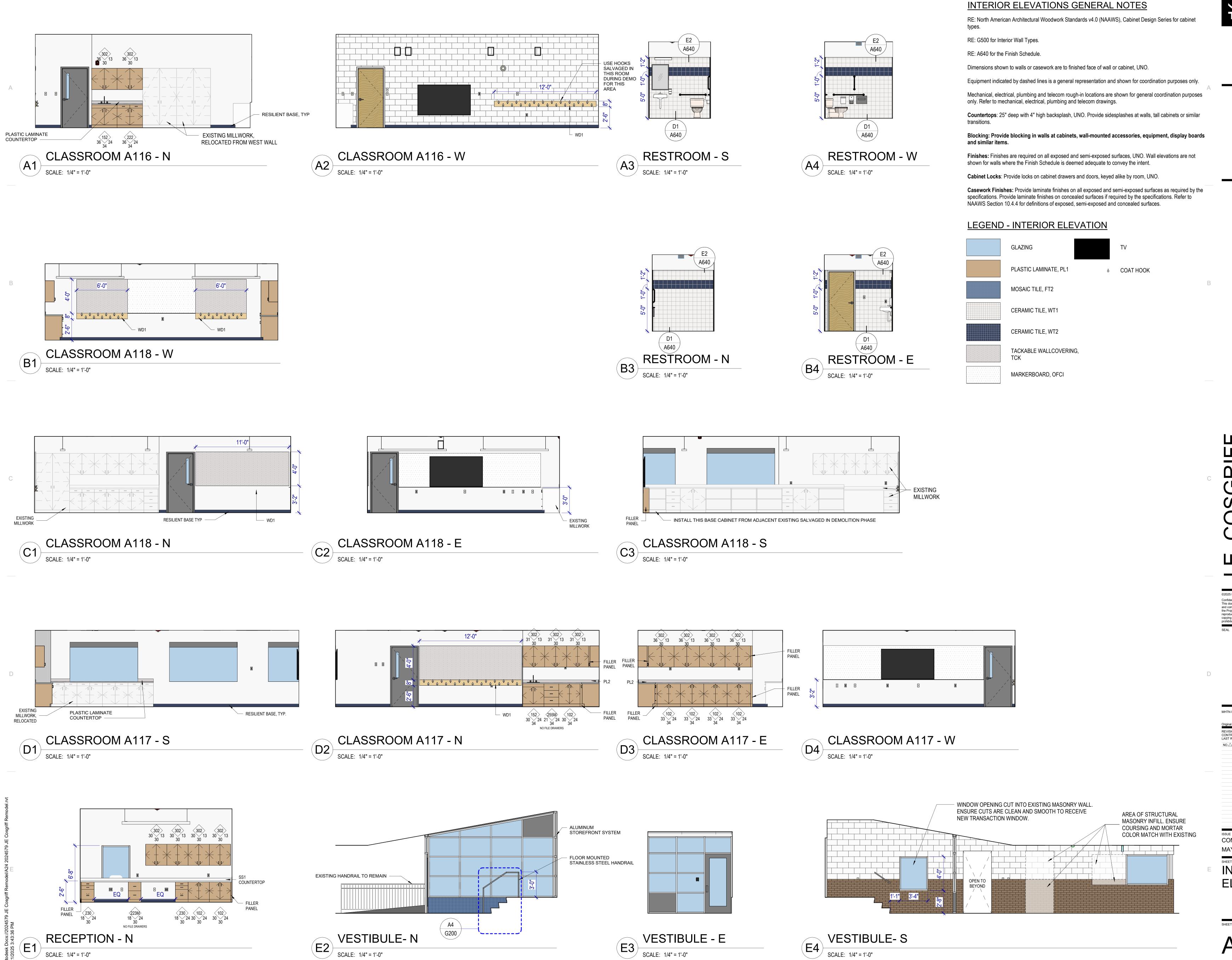


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NO.△	DATE	DESCRIPTION

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FIRST FLOOR PLAN



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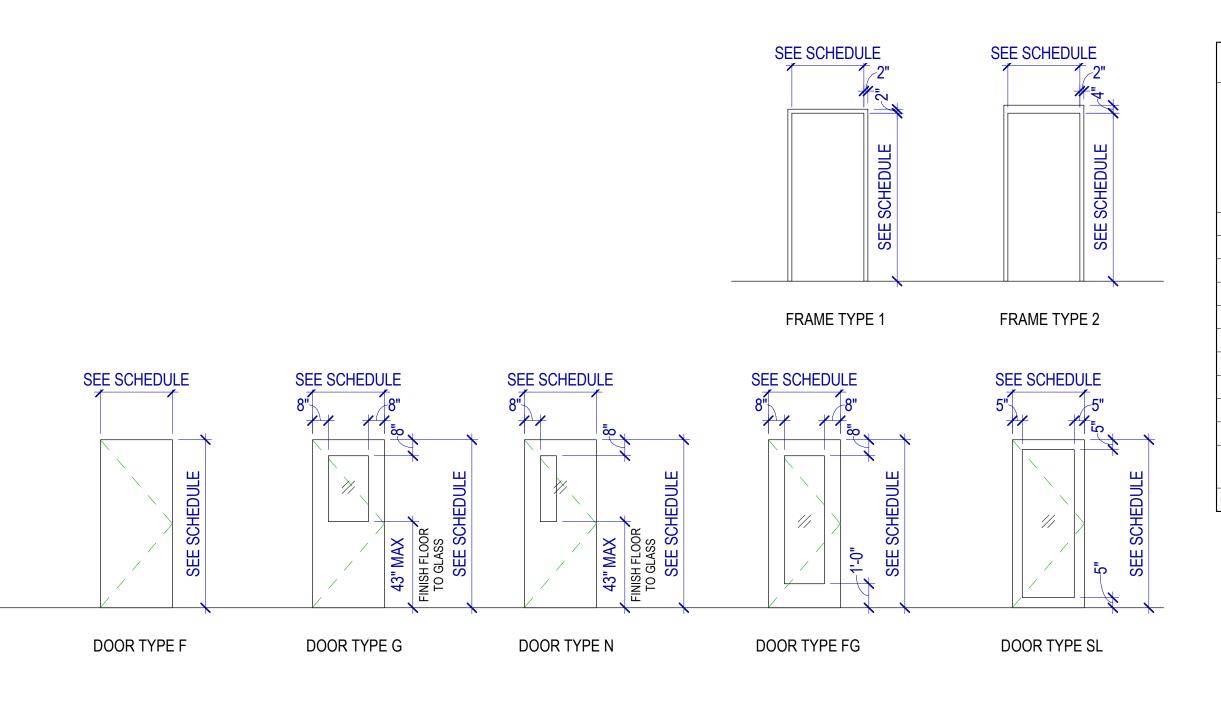
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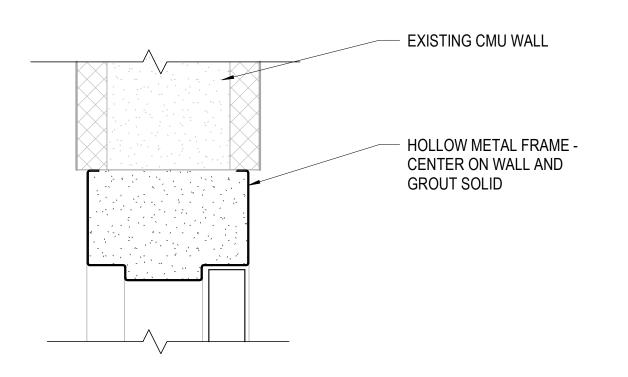
CONSTRUCTION DOCUMENTS MAY 21, 2025

INTERIOR **ELEVATIONS** 



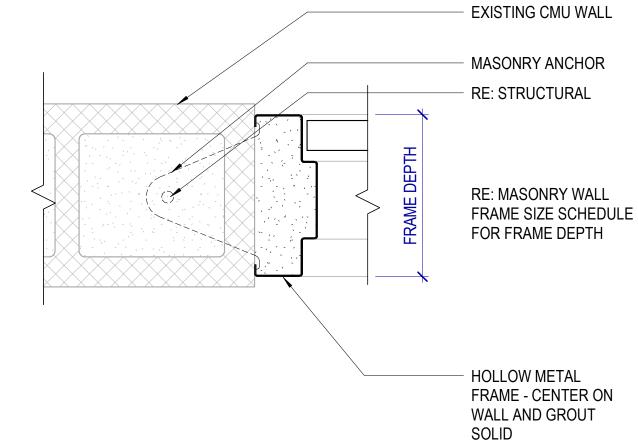
								DOO	R AND F	RAME S	CHE	DUL	E	
			DOOR			FR	AME				<u>Z</u>	<b>—</b>		
DOOR #	TYPE	WIDTH	НЕІСНТ	THICKNESS	MATERIAL	TYPE	MATERIAL	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	FIRE RATING (MIN)	HARDWARE SET	REMARKS	DOOR#
								T		I			T	
A111	FG	3'-0"	7'-0"	1 3/4"	WD	2	HM	C1/A600	D1/A600	E1/A640 SIM		04		A111
A112A	SL	3'-0"	7'-0"	1 3/4"	AL			C3/A600	D3/A600	E3/A600		AL02		A112A
A112B	SL	3'-0"	7'-0"	1 3/4"	AL			EXISTING	EXISTING	EXISTING		AL01		A112B
A112C	SL	3'-0"	7'-0"	1 3/4"	AL			EXISTING	EXISTING	EXISTING		AL03		A112C
A113	FG	3'-0"	7'-0"	1 3/4"	WD	1	HM	C2/A600	D2/A600	E1/A640 SIM		04		A113
A114	F	3'-0"	7'-0"	1 3/4"	WD	1	HM	C2/A600	D2/A600	E1/A640 SIM		02		A114
A115	F	3'-0"	7'-0"	1 3/4"	WD	1	НМ	C2/A600	D2/A600			01		A115
A116	N	3'-0"	7'-0"	1 3/4"	WD	1	НМ	C2/A600	D2/A600	E2/A600		03		A116
A117	N	3'-0"	7'-0"	1 3/4"	WD	1	НМ	C2/A600	D2/A600	E2/A600		02		A117
A117A	N	3'-0"	7'-0"	1 3/4"	WD	1		EXISTING	EXISTING	EXISTING		03	EXISTING FRAME, REPLACE DOOR LEAF AND HARDWARE	A117A
Grand tot	al: 10							1	1			1	1	'

# DOOR & FRAME TYPES

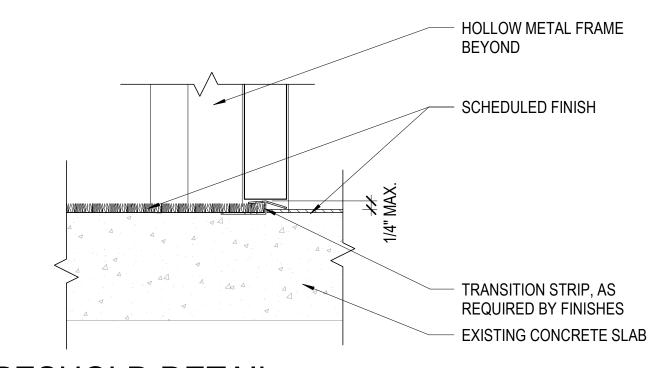




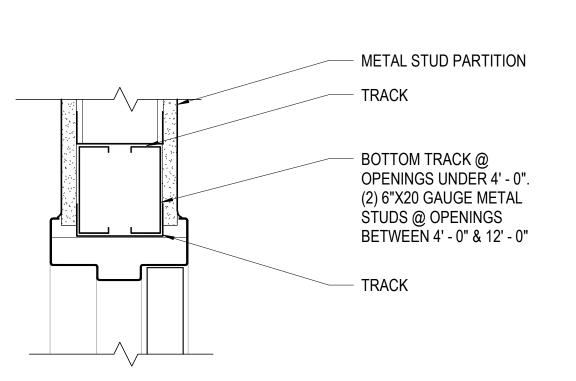
SCALE: 3" = 1'-0"



JAMB DETAIL D1 SCALE: 3" = 1'-0"

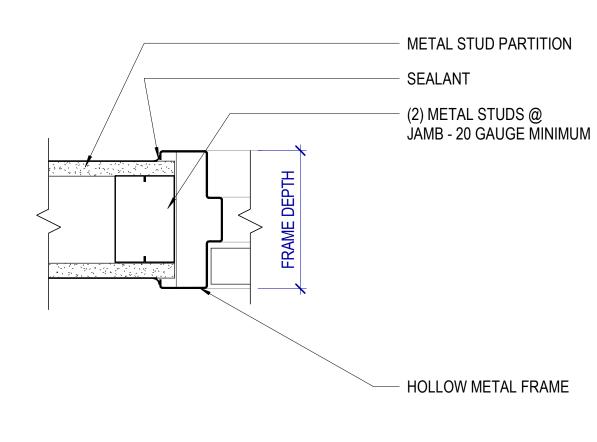


THRESHOLD DETAIL THREST SCALE: 3" = 1'-0"

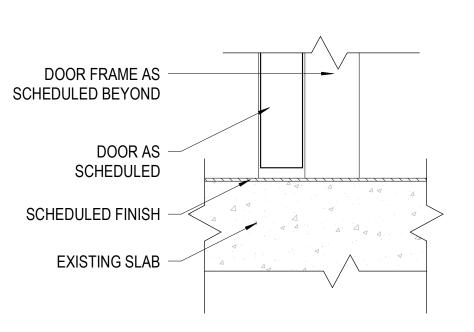


C2 HEAD DETAIL

SCALE: 3" = 1'-0"

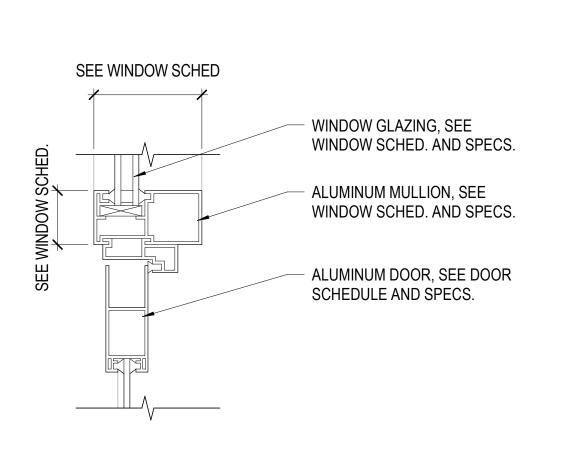


JAMB DETAIL D2 JAMB DE SCALE: 3" = 1'-0"



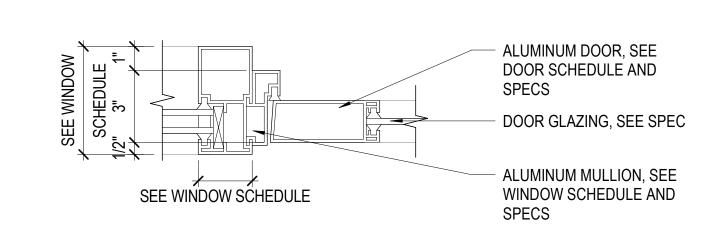
SILL DETAIL

SCALE: 3" = 1'-0"

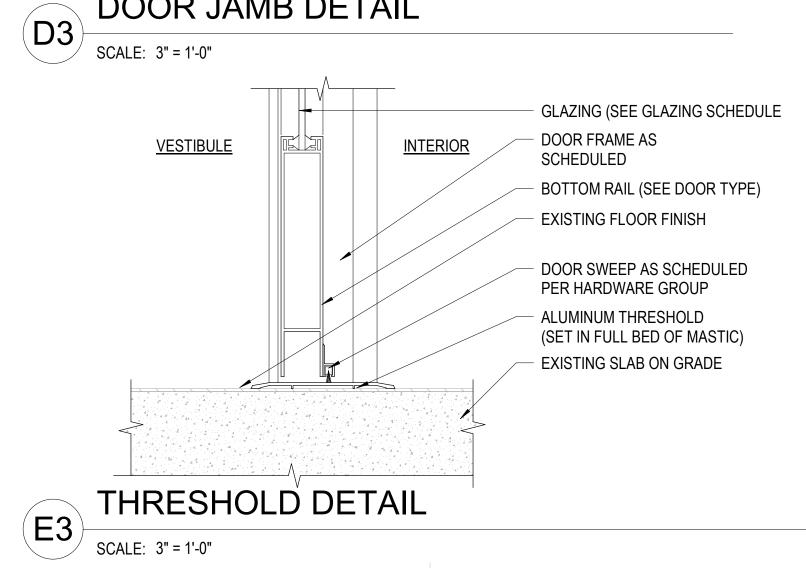


INTERIOR DOOR HEAD DETAIL

SCALE: 3" = 1'-0"



DOOR JAMB DETAIL



DOOR SCHEDULE GENERAL NOTES

RE: A620 for the Glazing Schedule.

RE: Division 8 Section "Door Hardware" for hardware sets.

Door Leaves: At each door, provide the number of leaves shown on the plans. Where two leaves are shown, provide equal leaves, UNO.

**Frame Depth**: Coordinate hollow metal frame depth with wall thickness, wrapping stud framed walls. Provide depths as scheduled for masonry walls, UNO.

Abbreviations: Door and Frame Schedule Remarks abbreviations: ADA ADA Actuator

CR Card Reader

DE Delayed Egress EL Electric Latch

ES Electric Strike

MO Motor Operation MHO Magnetic Hold Open

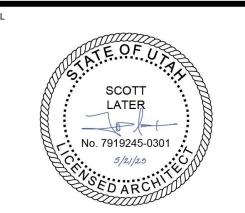
HOLLOW METAL FRAME DEPTH SCHEDULE								
MASONRY/CONCRETE DEPTH	FRAME DEPTH							
6"	5 3/4"							
8"	6 3/4"							
10"	8 3/4"							
12"	10 3/4"							



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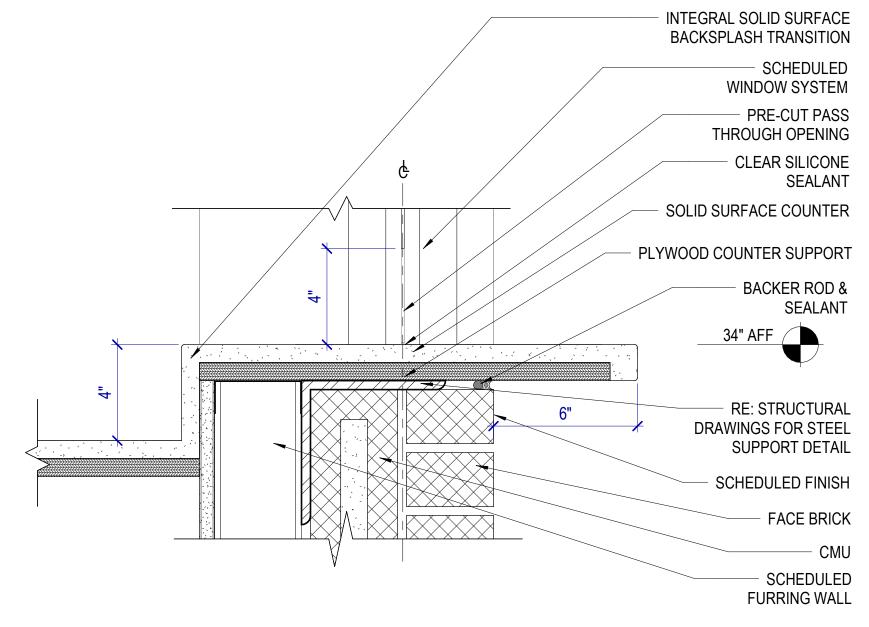


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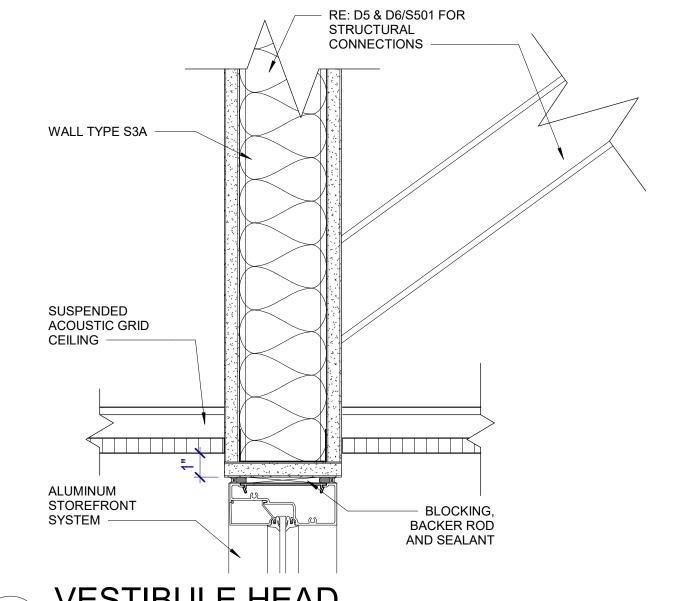
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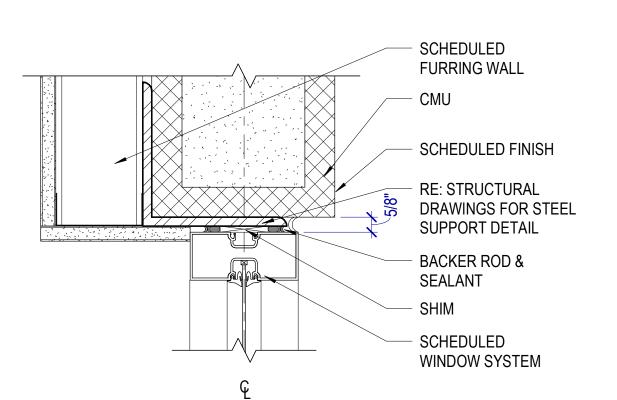
SHEET NAME DOOR SCHEDULE, TYPES & DETAILS



MASONRY WINDOW SILL SCALE: 3" = 1'-0"



VESTIBULE HEAD SCALE: 3" = 1'-0"



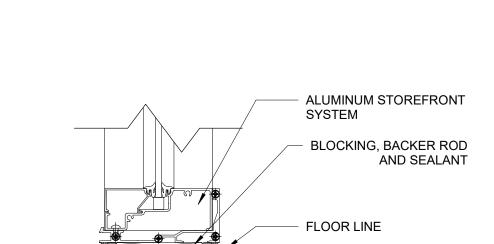
MASONRY WINDOW HEAD (JAMB SIM)

HORIZONTAL MID MULLION

SCALE: 3" = 1'-0"

ALUMINUM STOREFRONT SYSTEM

ALUMINUM STOREFRONT SYSTEM



3 3/4"

5 7/8"

1/4" 1/4" 5/8"

WOOD V SCALE: 3" = 1'-0"

GLAZING.

GASKETING

- CUSTOM SHAPE TO MATCH ADJACENT EXISTING.

NEW HARD WOOD WINDOW FRAME/MOULDING.

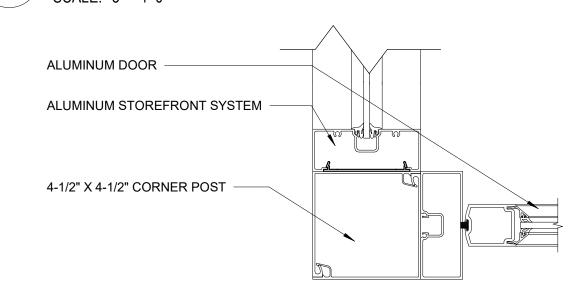
FINISH/SPECIES TO MATCH ADJACENT EXISTING

BLOCKING, BACKER ROD & SEALANT.

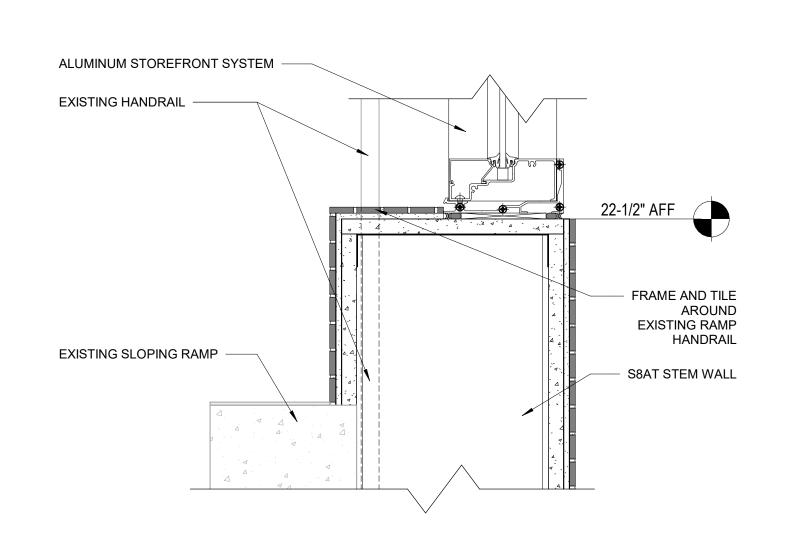
- EXISTING MASONRY WALL.

WOOD WINDOW FRAME (HEAD/JAMB/SILL)

STOREFRONT FLOOR DETAIL

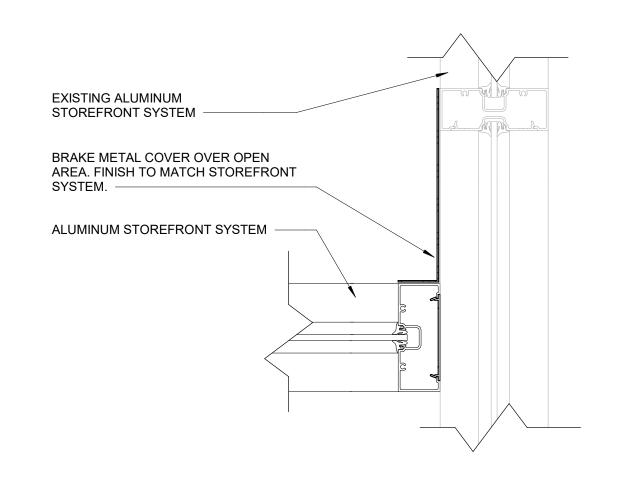


STOREFRONT JAMB DETAIL

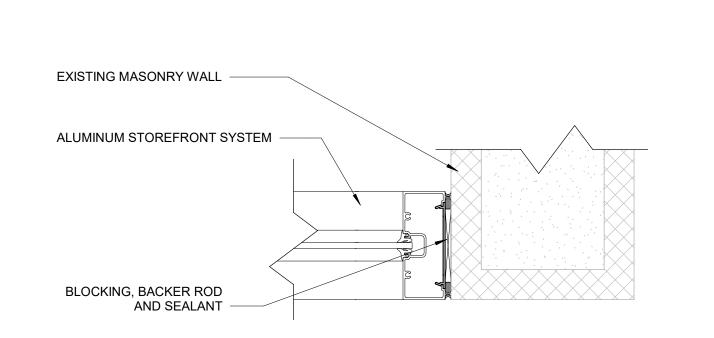


VERTICAL MID MULLION

STOREFRONT SILL DETAIL

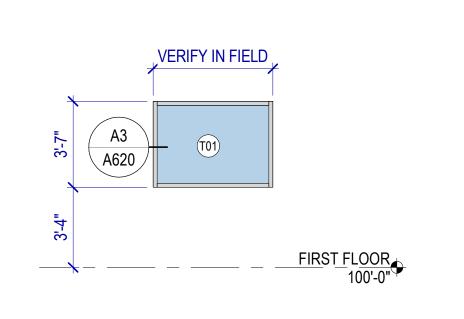


STOREFRONT JAMB DETAIL

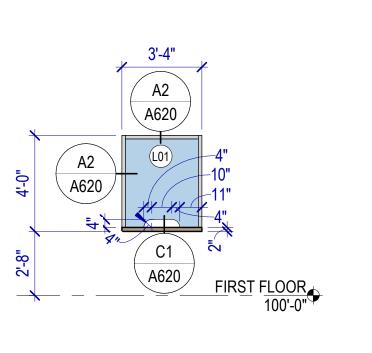


STOREFRONT JAMB DETAIL 3

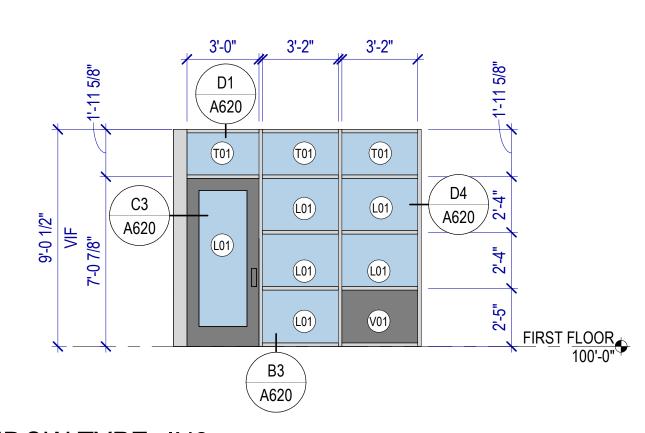
SCALE: 3" = 1'-0"



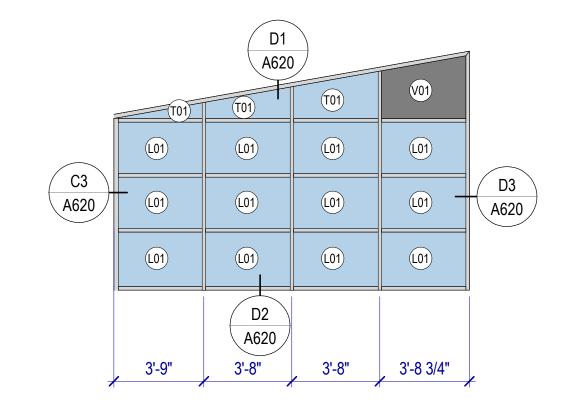
WINDOW TYPE 4



WINDOW TYPE 3 SCALE: 1/4" = 1'-0" STOREFRONT



WINDOW TYPE IN2 SCALE: 1/4" = 1'-0" STOREFRONT



WINDOW TYPES GENERAL NOTES

**End Dams:** Provide end dams at sill flashing.

glazing, sealants, flashing, brake metal and backing.

GLAZING SCHEDULE

L01 8mm (5/16") SHOOTER ATTACK

CERTIFIED GLAZING

T01 6mm (1/4") CLEAR TEMPERED

FLOAT GLASS

V01 ALUMINUM LOUVER

Window Frames: Frames are aluminum storefront, UNO. Finish as specified.

Coordination: Coordinate all trades to provide complete systems, including, but not limited to framing,

WINDOW TYPE IN1

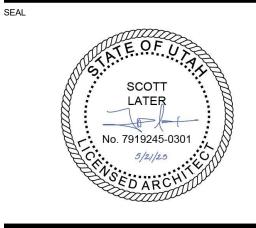
SCALE: 1/4" = 1'-0" STOREFRONT

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WINDOW TYPES & DETAILS

# FINISH SCHEDULE LEGEND

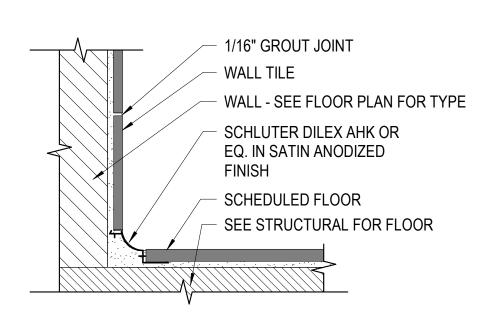
**BASE** 

FLOOR FINISHES			E	BASIS-OF-DESIGN			
CALL OUT	DESCRIPTION	COLOR	MANUFACTURER	PRODUCT/STYLE	COMMENTS		
CPT1	24"x24" CARPET TILE	06400 SIDE KICK	SHAW BUILDER	54806 CARBON COPY	MATCH EXISTING		
LVT1	12"x24" LVT	FLANNEL C146	MANNINGTON COMMERCIAL	GROOVE - COLOR ANCHOR LVT			
FT1	2"x 2" PORCELAIN TILE	UPTOWN TAUPE D202	DALTILE	KEYSTONES			
FT2	1"x1" PORCELAIN TILE	NAVY D189	DALTILE	KEYSTONES			

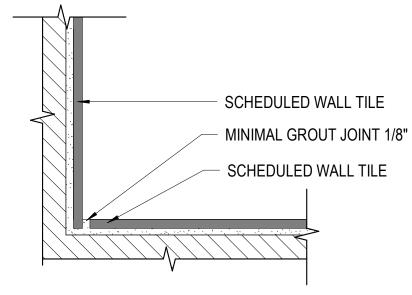
WB1	4" RUBBER BASE	187 BLUE	ROPPE	STANDARD TOE	
WALL FINISH	HES		BASIS-	OF-DESIGN	
CALL OUT	DESCRIPTION	COLOR	MANUFACTURER	PRODUCT/STYLE	COMMENTS
WT1	6"x 6" CERAMIC TILE	WHITE 0100 SEMI-GLOSS	DALTILE	COLOR WHEEL CLASSIC	
WT2	6"x 6" CERAMIC TILE	NAVY K189	DALTILE	COLOR WHEEL CLASSIC	
				3 2 3 2 1 1 1 1 1 2 2 3 2 1 1 3 3 1	

CEILING					
CALL OUT	DESCRIPTION	COLOR	MANUFACTURER	PRODUCT/STYLE	COMMENTS
ACP1	24" x 48" ACOUSTICAL CEILING PANEL	FLAT WHITE 050	USG	RADAR BASIC 231	Accessories: white grid
ACT1	12"x12" ADHESIVE-MOUNTED CEILING TILES	FLAT WHITE 050	USG	RADAR 2570	· ·
GB1	EPOXY PAINTED GYPSUM BOARD CEILING	PAINTED PT2			

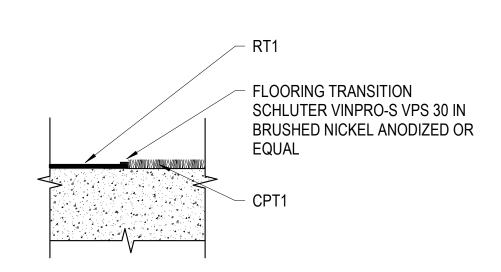
MISC FINISH	IES		BAS	BASIS-OF-DESIGN				
CALL OUT	DESCRIPTION	COLOR	MANUFACTURER	PRODUCT/STYLE	COMMENTS			
PT1	PAINT	SW 7006 EXTRA WHITE	SHERWIN-WILLIAMS	LATEX, NO-VOC, SEMI GLOSS	FIELD / WHITE			
PT2	EPOXY PAINT	SW 7006 EXTRA WHITE	SHERWIN-WILLIAMS	WATERBASED, LOW-VOC, SEMI GLOSS				
PT3	PAINT	MATCH EXISTING	SHERWIN-WILLIAMS	LATEX, NO-VOC, SEMI GLOSS	GREY TO MATCH EXISTING DOOR FRAMES, TYP			
PL1	PLASTIC LAMINATE	MISSION MAPLE 7990-38	WILSONART	FINE VELVET TEXTURE FINISH				
PL2	PLASTIC LAMINATE COUNTERTOP	HANDSPUN DOVE 5034-38	WILSONART	FINE VELVET TEXTURE FINISH				
SS1	SOLID SURFACE COUNTERTOP	WHITE STONE 9208CS	WILSONART					
WD1	1x8 MAPLE WOOD	STAINED TO MATCH PL1						
TCK	TACKABLE WALLCOVERING	06 HARBOR	KOROSEAL	TAC-WALL 48				



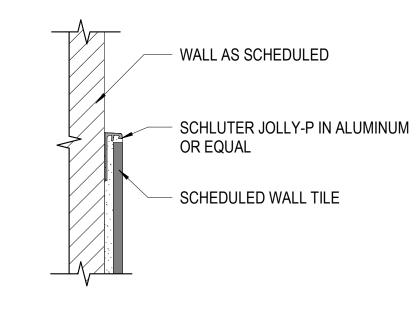












<b>E</b> 2	WALL TILE END CAP
	SCALE: 3" = 1'-0"

RM#	ROOM NAME	FLOOR FINISH	BASE FINISH	NORTH WALL FINISH	EAST WALL FINISH	SOUTH WALL FINISH	WEST WALL FINISH	CEILING FINISH	CABINET FINISH	COUNTER TOP FINISI	REMARKS	RM#
A111	OFFICE			PT1								A111
A112	VESTIBULE	SEE PLAN		PT1			PT1	SEE RCP		SS1	TOUCH UP FINISH IN MASONRY OPENING AFTER CUT-IN WINDOW OPENING	A112
A113	RECEPTION	SEE PLAN	RB1	PT1	PT1	PT1	PT1	SEE RCP	PL1	SS1		A113
A114	WELLNESS	SEE PLAN	RB1	PT1	PT1	PT1	PT1	SEE RCP				A114
A115	W/C	SEE PLAN	WT1	WT1, WT2, PT2	WT1, WT2, PT2	WT1, WT2, PT2	WT1, WT2, PT2	SEE RCP				A115
A116	CLASSROOM	SEE PLAN	RB1	PT1				SEE RCP	PL1	PL2		A116
A117	CLASSROOM	SEE PLAN	RB1	PT1	PT1	PT1	PT1	SEE RCP	PL1	PL2		A117
A118	CLASSROOM	SEE PLAN	RB1	PT1	PT1	PT1	PT1	SEE RCP	PL1	PL2		A118
A119	CORRIDOR	SEE PLAN			PT1	PT1		SEE RCP				A119

WINDOW COVERING SCHEDULE

WALL

MOUNTING

LEFT

MATERIAL

OPERATION

R01L ROLLER SHADE MANUAL LIGHT FILTERING

CONTROL LOOP LOCATION LENGTH DETAIL COLOR

COMMENTS

FINISH SCHEDULE

FINISH SCHEDULE GENERAL NOTES	
RE: A640 for typical floor finish transition details	

RE: A640 for typic

RE: A651 for Floor Pattern Plans

elevations, provide 4" rubber base.

Provide finishes as indicated in the finish schedule. Refer to interior elevations, where drawn, for clarification, dimensions and additional information. The absence of an interior elevation does not override the requirement to provide the finish indicated in the schedule.

Where a finish is partly hidden by an object, extend that finish behind the object.

Where multiple finishes are scheduled, refer to interior elevations and floor pattern plans for transition

which in a floor plan view may obscure the extent of the floor finish. Base: Where base is scheduled for a room, provide base at all walls whether shown in elevation,

including alcoves and offsets. At gypsum board walls, if no base is scheduled or shown in interior

Floor: Extend floor finishes into knee spaces at cabinets, under counters and under all other objects,

Walls: Extend wall finishes behind cabinets, behind mirrors, and into other areas that may be hidden in elevation views.

Ceilings: Paint areas above suspended ceilings that are visible from below. Color: black.

Doors, Windows and Frames: Unless specified to be pre-finished at the factory, provide paint finish on hollow metal doors and hollow metal door and window frames. Color as indicated, or if not indicated, then as selected by the Architect. Provide specified stain finish at wood doors.

Unfinished and Primed Metal Surfaces: Paint all unfinished and primed metal surfaces that are visible with the specified system(s). Color by Architect.

Floor Finish Transitions at Doors: Locate floor finish material transitions that occur at doors under the center of the door, UNO.

Floor Drains: Coordinate location of floor drains with Plumbing drawings.

# Typical Colors, UNO:

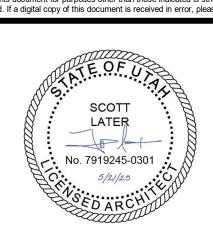
Hollow Metal Frames: P3



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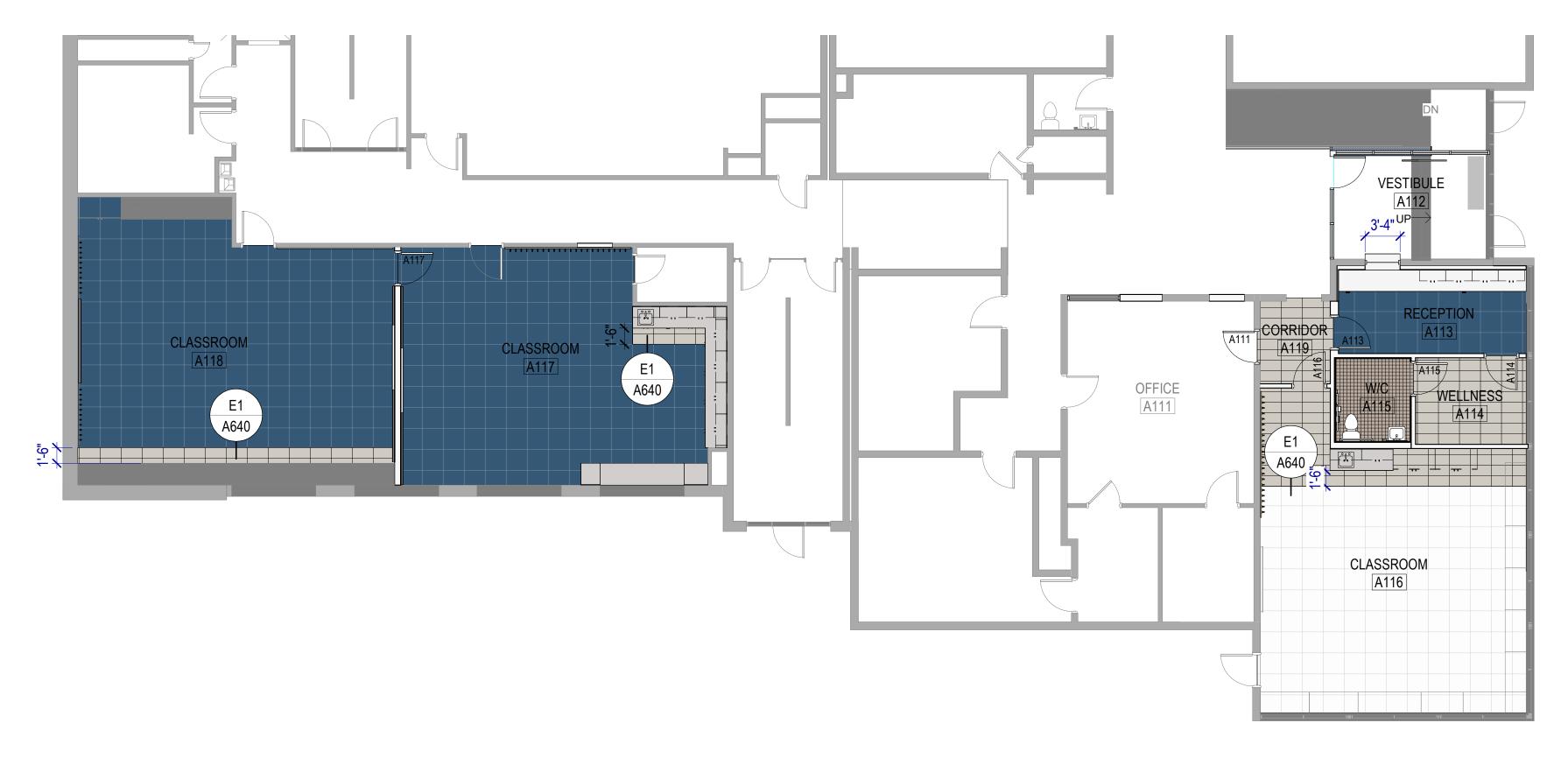


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**FINISH** SCHEDULE, LEGEND & DETAILS



1 4

# FLOOR FINISH PLAN

SCALE: 1/8" = 1'-0"



# PATTERN PLAN GENERAL NOTES

RE: A640 for the Finish Schedule

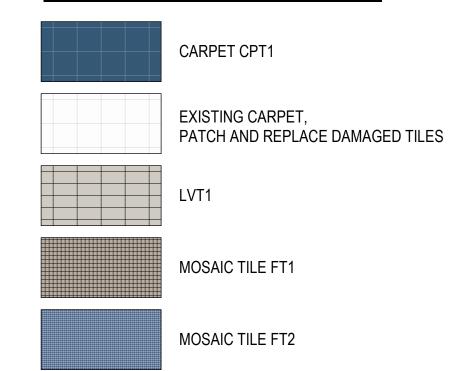
RE: A640 for typical floor finish transition details

RE: Structural drawings for recessed slabs.

Floor Finish Transitions at Doors: Locate floor finish material transitions that occur at doors under the center of the door, UNO.

Floor Drains: Coordinate location of floor drains with Plumbing drawings.

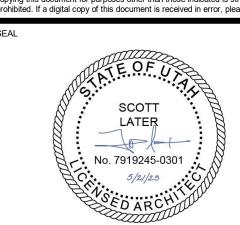
# **LEGEND - FLOOR PATTERN**





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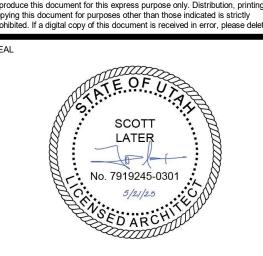


MHTN PROJECT NO. 2024579 VIEW AND PRINT THIS DRAWING IN COLOR							
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		Y DRAWINGS IN FIELD USE REFLECT					
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FIRST FLOOR
PATTERN PLAN

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MHTN PROJECT NO. 2024579

- 3 5/8" METALSTUDS AT

4' - 0" OC STAGGERED. ANCHOR TO STRUCTURE ABOVE

SUSPENDED

SCHEDULED WALL

- 12 GAUGE PERIMETER

- SEISMIC CLIP

- RUNNER

- EDGE MOLDING

ACOUSTICAL CEILING

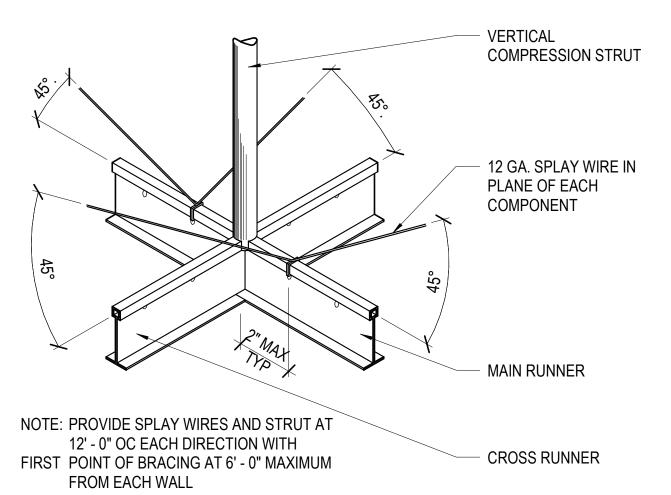
REVISIONS CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

CONSTRUCTION DOCUMENTS MAY 21, 2025

**CEILING DETAILS** 

A710

ROOF STRUCTURE - EXISTING CEILING SUBSTRATE ADHESIVE LAYER RE: RCP ADHERED
ACOUSTICAL CEILING
SYSTEM



# VERTICAL COMPRESSION STRUT SCHEDULE

EMT CONDUIT  1/2" 5'-10" MAX 3/4" 7'-8" MAX 1"  9'-9" MAX  METAL STUDS 1- 5/8" X 20 GA 2- 1/2" X 20 GA (2)* 1- 5/8" X 20 GA (2)* 2- 1/3" X 20 GA *BACK-TO-BACK  MAXIMUM SPAN 1'-0" MAX 1'-0" 12'-0" 13'-6" 15'-0" 15'-0"	<u> </u>	AL COMPRESSI	ON STRUT SCHEDULE
3/4" 7'-8" MAX 1" 9'-9" MAX  METAL STUDS 1- 5/8" X 20 GA 12'-0" 2- 1/2" X 20 GA 13'-6" (2)* 1- 5/8" X 20 GA 15'-0" (2)* 2- 1/3" X 20 GA 15'-0"		EMT CONDUIT	MAXIMUM SPAN
1- 5/8" X 20 GA 12'-0" 2- 1/2" X 20 GA 13'-6" (2)* 1- 5/8" X 20 GA 15'-0" (2)* 2- 1/3" X 20 GA 15'-0"		3/4"	7'-8" MAX
		1- 5/8" X 20 GA 2- 1/2" X 20 GA (2)* 1- 5/8" X 20 GA (2)* 2- 1/3" X 20 GA	13'-6" 15'-0"

# SYMBOL LEGEND: S SEISMIC CLIP imes HANGER WIRE PERIMETER WIRE RE: SEISMIC CLIP DETAILS THIS SHEET FOR ATTACHMENT TO WALLS FRAMING FOR 2X2 GRID; 2X4 GRID SIMILAR RE: SEISMIC BRACING DETAIL **UNATTACHED WALL**

# TYP SUSPENDED CEILING DETAIL

SEISMIC CLIP - RUNNER - EDGE MOLDING

CEILING DETAIL-ATTACHED

SCALE: 1 1/2" = 1'-0"

TYP SUS

SCALE: 1/4" = 1'-0"

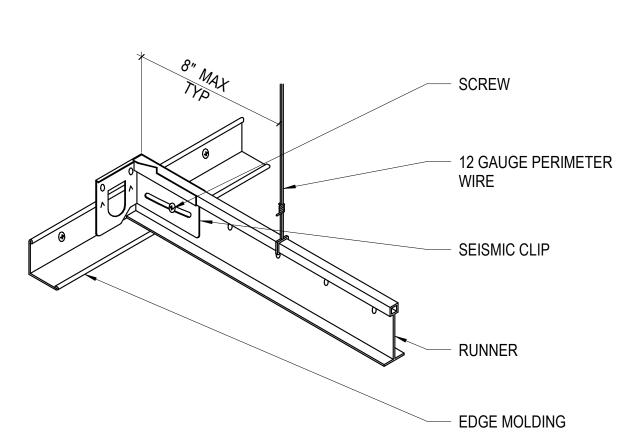
ADHERED ACOUSTICAL CEILING DETAIL

SCALE: 3" = 1'-0"

GYPSUM BOARD GRID SUSPENSION SYSTEM WITH HANGER WIRES AT 48" OC EACH WAY

TYP GYP BD CEILING DETAIL TYP GYI

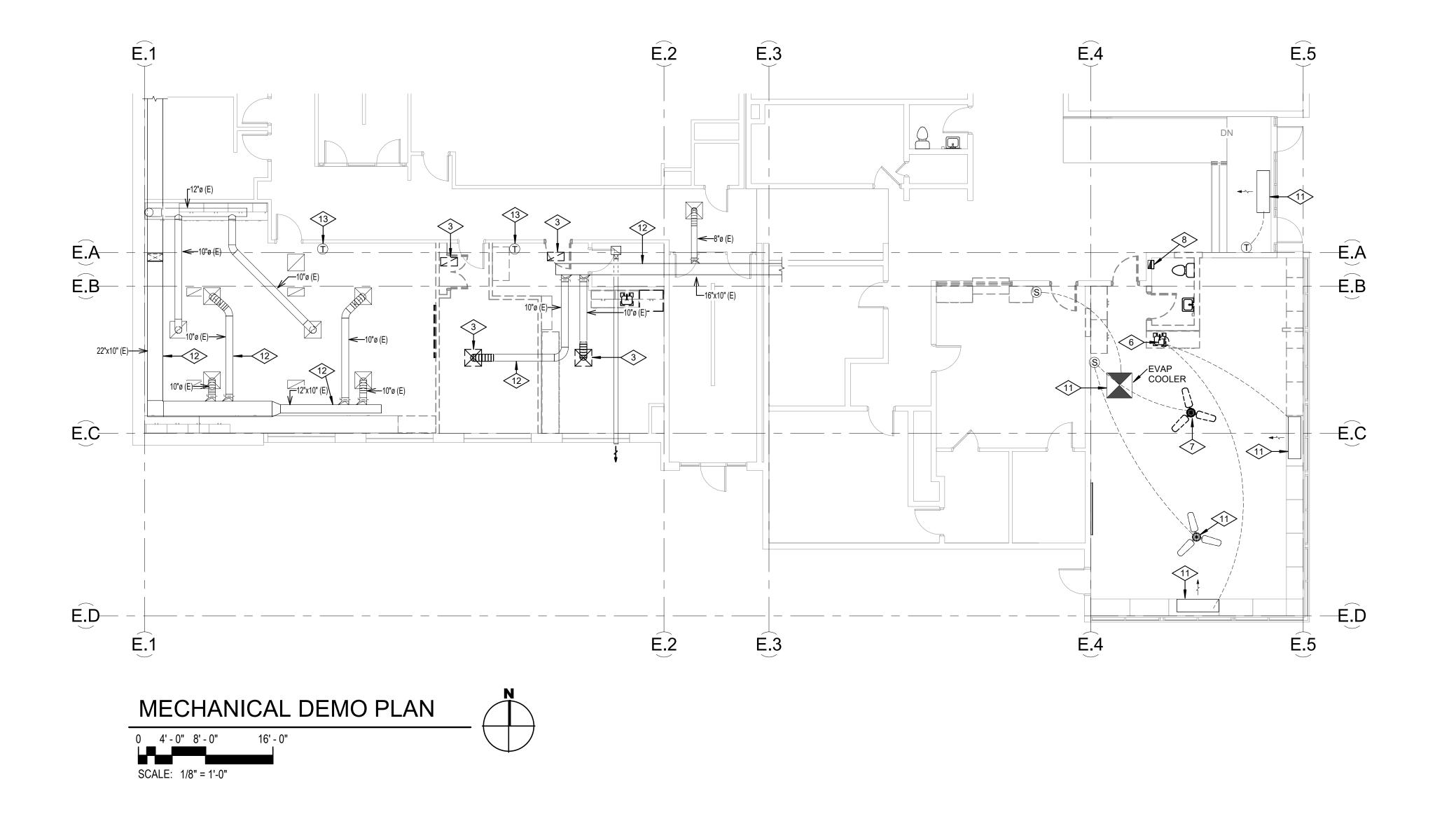
SCALE: 3" = 1'-0"

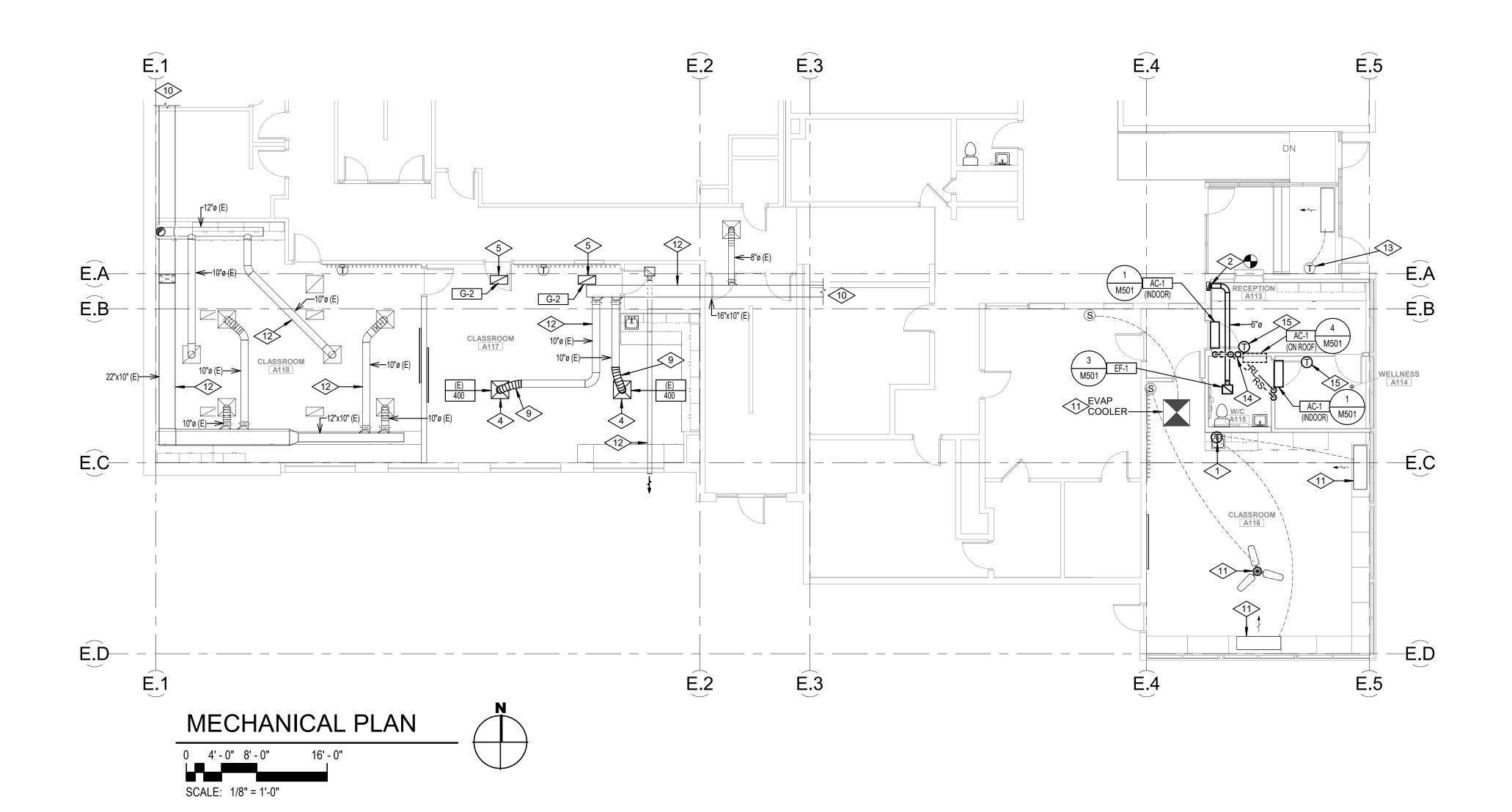


CEILING DETAIL-UNATTACHED SCALE: 1 1/2" = 1'-0"

CEILING DETAIL

SEISMIC BRACING DETAIL SEISMIC | SCALE: 1 1/2" = 1'-0"







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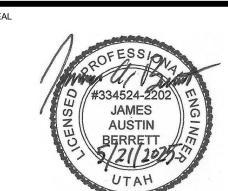
# \* REFERENCE NOTES

- 1 RE-INSTALL EXISTING PNEUMATIC THERMOSTAT. RUN NEW PNEUMATIC TUBING FROM EXISTING ATC AIR LINE TO THERMOSTAT.
- 2 CONNECT EXHAUST DUCTWORK TO EXISTING DUCT THRU ROOF.
- 3 REMOVE EXISTING GRILLE OR DIFFUSER, STORE IN A SAFE PLACE FOR RE-INSTALLATION INTO NEW CEILING
- 4 REINSTALL DIFFUSER INTO NEW CEILING SYSTEM AND RE-BALANCE TO CFM SHOWN.
- 5 REINSTALL GRILLE INTO NEW CEILING SYSTEM.
- REMOVE EXISTING PNEUMATIC THERMOSTAT AND STORE IN A SAFE PLACE FOR REINSTALLATION. CAP PNEUMATIC TUBING.
- 7 REMOVE EXISTING CEILING FAN.
- REMOVE SIDEWALL EXHAUST FAN, LEAVING EXISTING DUCTWORK IN PLACE.
- 9 FLEXIBLE DUCTWORK (TYPICAL).
- 10 DUCTWORK CONTINUES TO A FURNACE.
- 11 EXISTING EQUIPMENT TO REMAIN.
- 12 EXISTING DUCTWORK TO REMAIN.
- 13 EXISTING THERMOSTAT TO REMAIN.
- 14 PIPES UP THROUGH ROOF TO AC-1 (ON-ROOF).
- 15 WALL MOUNTED, HARD WIRED, HEATING & COOLING THERMOSTAT.

# J.E. COSGRIFF

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DATE

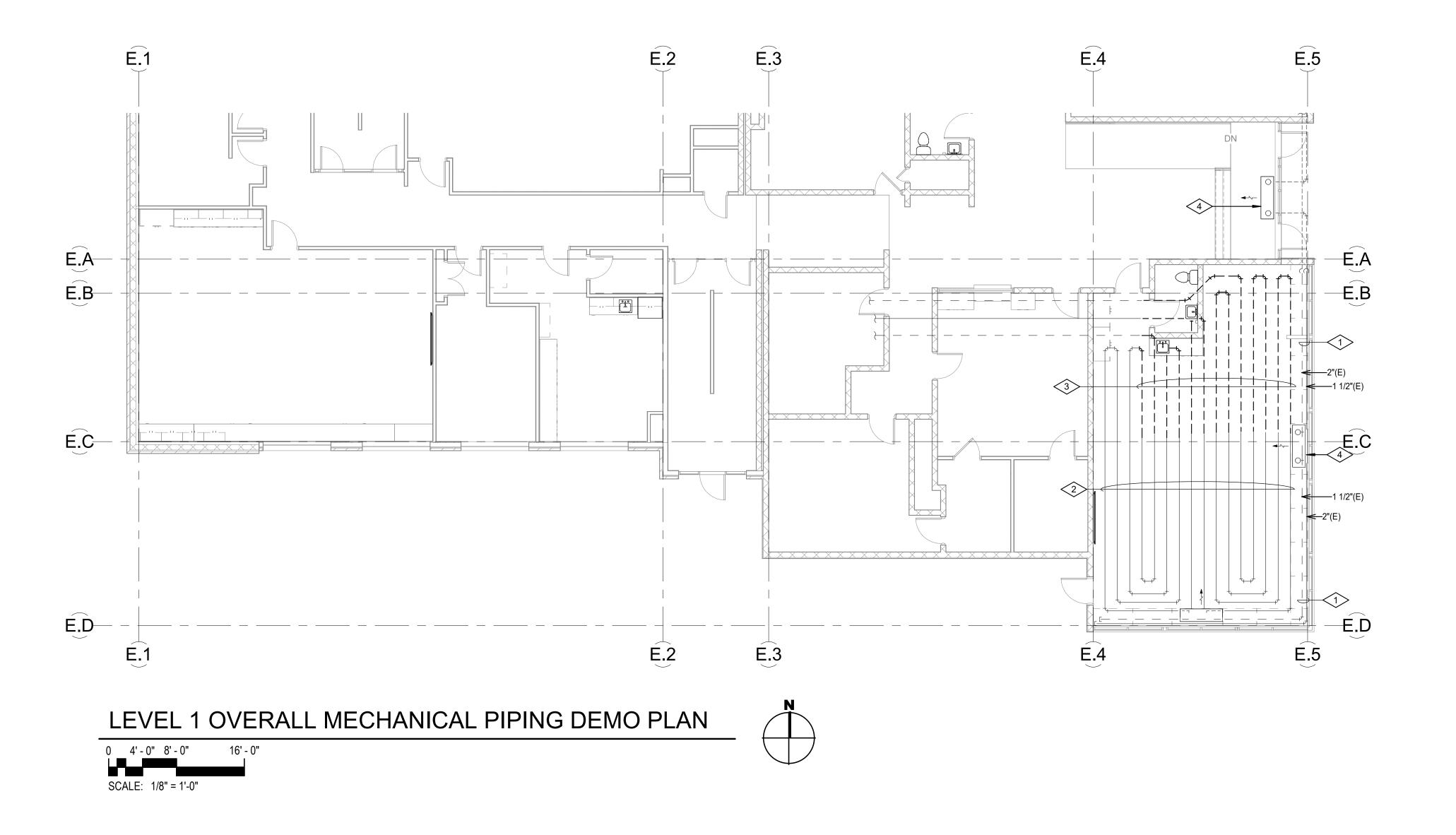
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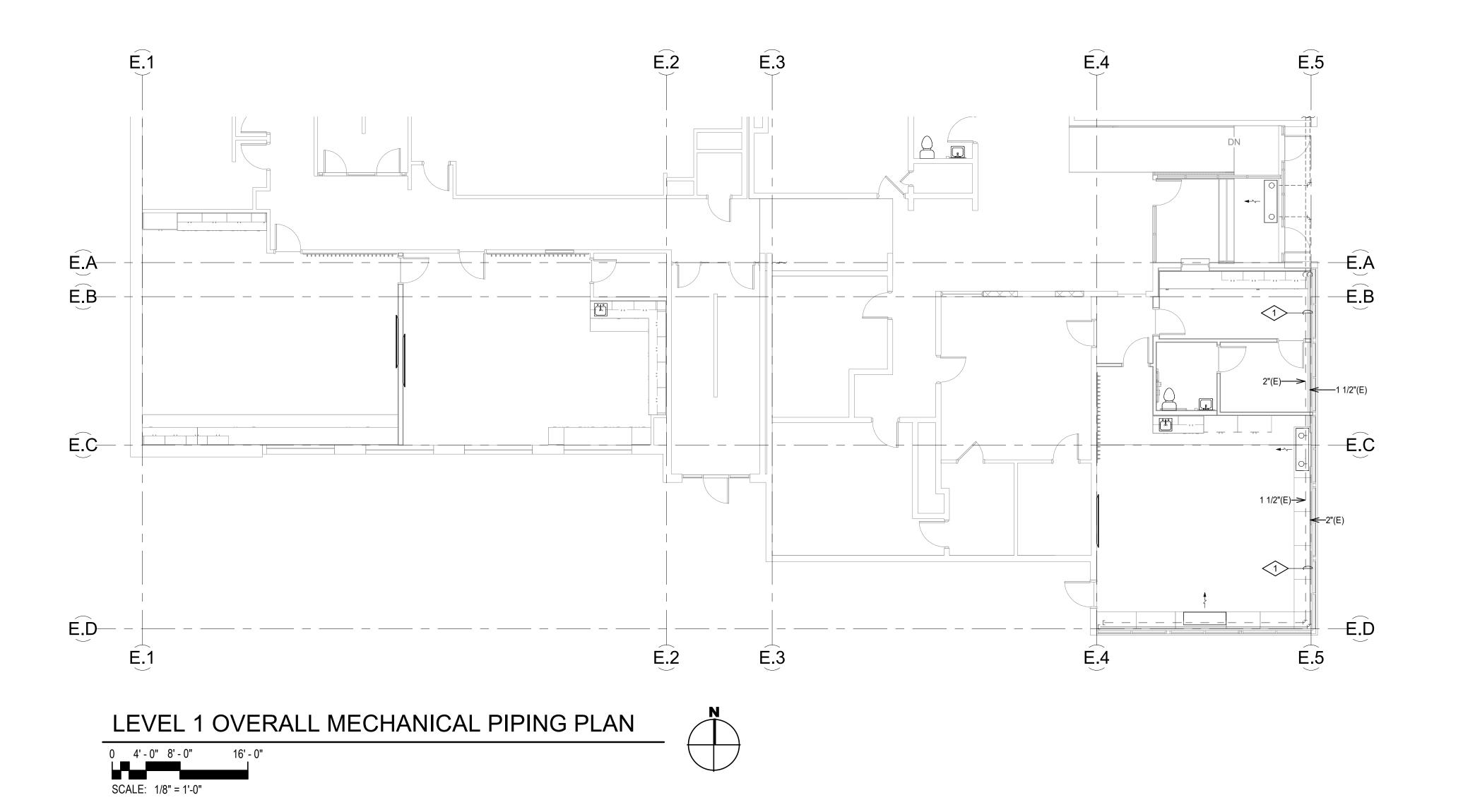
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MAY 21, 2025

E MECHANICAL PLAN

SHEET NUMBER







ARCHITECTS

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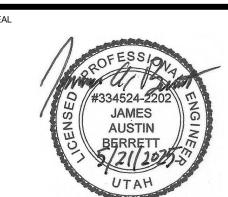
# REFERENCE NOTES

- 1 EXISTING MECHANICAL PIPING IN CHASE IN MILLWORK ABOVE FINISHED FLOOR TO REMAIN.
- 2 EXISTING ABANDONED IN FLOOR HEATING SYSTEM.
- 3 FIELD VERIFY UNDERFLOOR HEAT TUBING IS NOT IN USE, AND REMOVE AS NEEDED.
- 4 EXISTING HOT WATER CABINET UNIT HEATER TO REMAIN.

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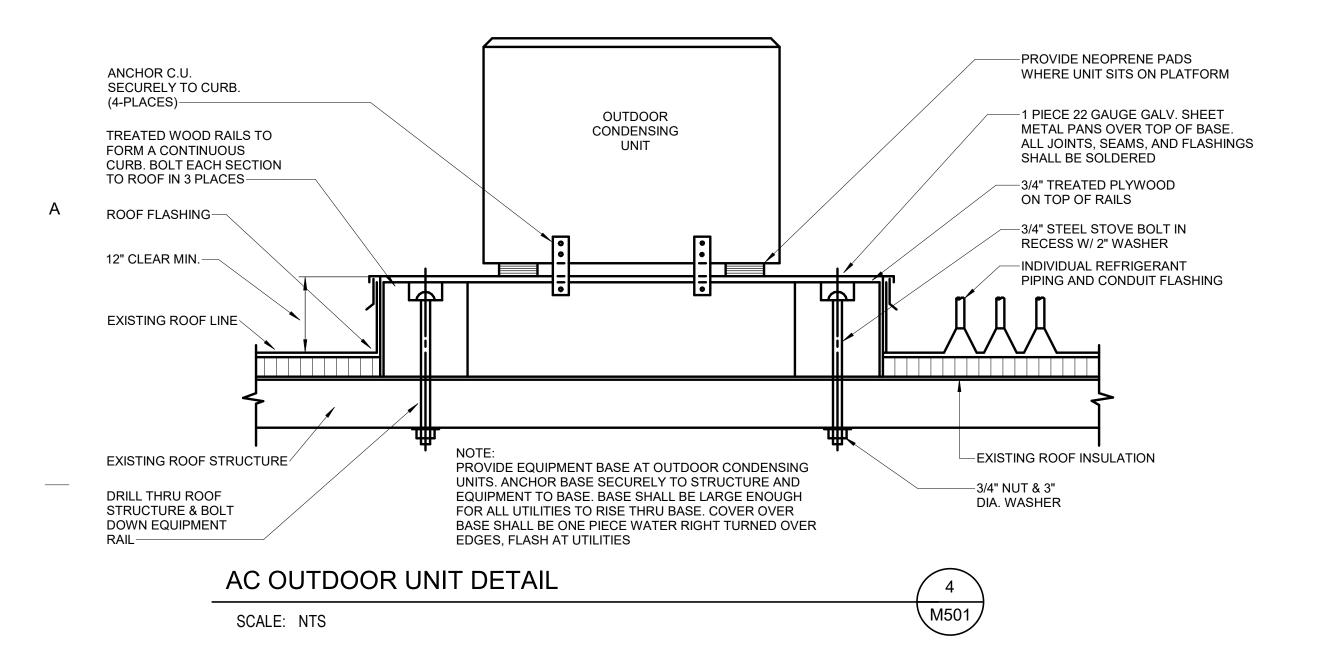


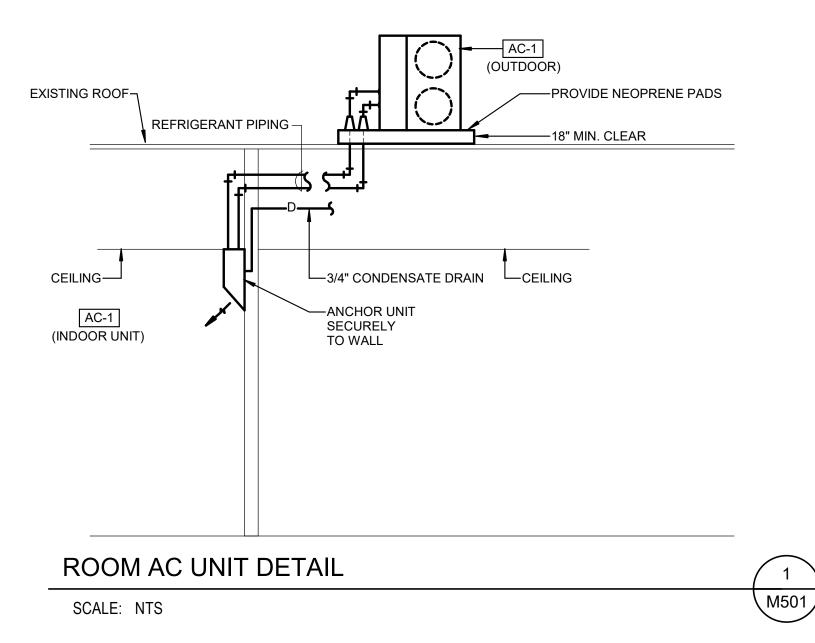
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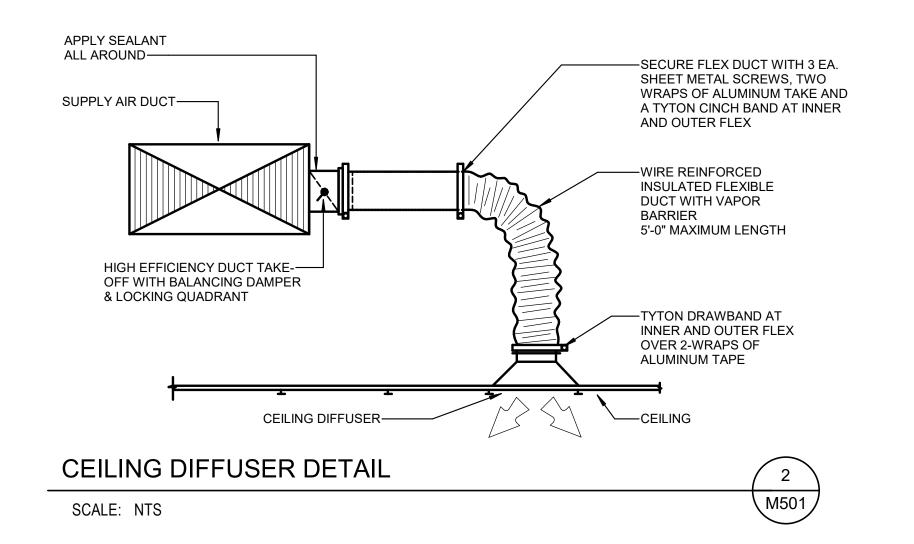
CONSTRUCTION DOCUMENTS
MAY 21, 2025

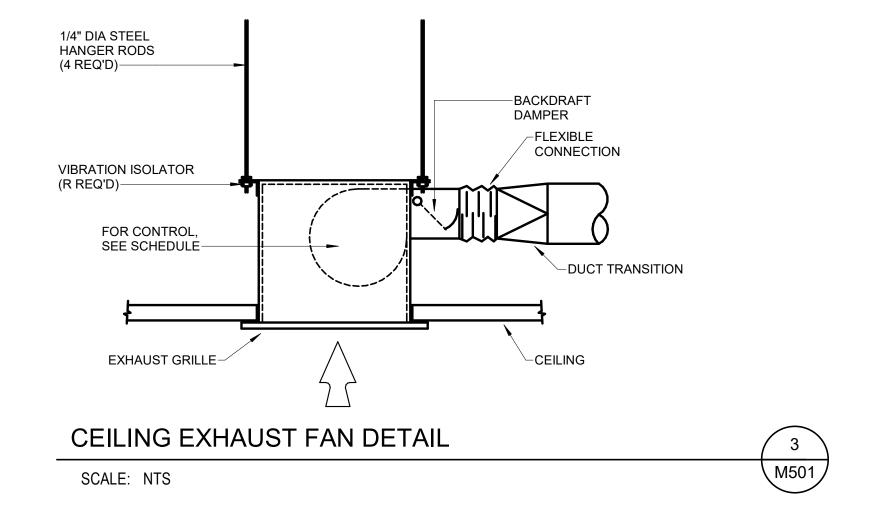
E MECHANICAL PIPING PLANS

MP101









# MECHANICAL EQUIPMENT SCHEDULE

AC-1 (INDOOR) (2-REQ'D)

INDOOR UNIT: HEATING/COOLING, WALL MOUNTED, HORIZONTAL DISCHARGE, 151, 182, 256, 358, 448 CFM, 6,000 BTUH NOMINAL COOLING AT 95°F O.A. TEMP, 80°F D.B. & 67°F W.B. 7,200 BTUH TOTAL HEATING CAPACITY AT 17°F O.A. TEMP, 70°F D.B. & 60°F W.B., MCA=1.0, 208/230/1/60 MOTOR TO BE UL LISTED. UNIT TO BE COMPLETE WITH CLEANABLE FILTER, CONDENSATE PUMP, CHECK & EXPANSION VALVE KIT, PRE-CHARGED LINE SET, DRIP PAN AND DRAIN CONNECTION. PROVIDE WALL MOUNTED THERMOSTAT WITH NIGHT SET BACK. THERMOSTAT SHALL BE HARD WIRED TO UNIT. UNIT DIM: 31 13/32" LENGTH X 9 21/32" HEIGHT X 11 25/32" DEPTH.

WEIGHT: 27 LBS.
SEER2: 19.3
HSPF2: 10

MXZ-2D20NLHZ

HSPF2: 10
MANUFACTURER: MITSUBISHI
MODEL: MSZ-GX06NL

MODEL:

OUTDOOR UNIT: AIR COOLED, HORIZONTAL DISCHARGE, INVERTER COMPRESSOR, UNIT TO BE MOUNTED ON ROOF. 20,000 BTUH TOTAL COOLING CAPACITY AT 95°F O.A. TEMP, 80°F D.B. & 67°F W.B., 22,000 BTUH TOTAL HEATING CAPACITY AT 17°F O.A. TEMP, 70°F D.B. & 60°F W.B., MCA=21.7, 208/230/1/60. UNIT TO BE CAPABLE OF SERVING (2) INDOOR UNITS. UNIT TO BE COMPLETE WITH CRANKCASE HEATER, AMBIENT CONTROL KIT TO 0°F, AND ALL CONTROLS FOR AUTOMATIC OPERATION. CONTRACTOR TO PROVIDE A ROOF CURB 18" ABOVE FINISHED ROOF LEVEL. R454B REFRIGERANT. UNIT DIM:

37 11/32" LENGTH X 13" X HEIGHT X 13 11/32" WIDTH. WEIGHT:

137 LBS. MANUFACTURER:

MITSUBISHI

	DIFFUSER SCHEDULE								
SYMBOL	TYPE	NECK SIZE	LOCATION	AIR PATTERN	MAKE & MODEL				
D-1 CFM	SQUARE PLAQUE	10" DIA	CEILING	4 - WAY	PRICE SPD	(1)(2)			
NOTES:									

(1) COLOR SHALL BE BRIGHT WHITE.(2) PROVIDE FRAME FOR MOUNTING IN GYP-BOARD CEILING.

	EXHAUST FAN SCHEDULE									
SYMBOL	LOCATION	TYPE	C.F.M	S.P.	SONES	MOTOR	DRIVE	WEIGHT LBS.	MAKE & MODEL	NOTES
EF-1	SMALL BATHROOMS	CEILING MTD CABINET	75	.3	0.9	115/1/60 1/6 HP	DIRECT	23	TWIN CITY T-150LPH	(1)(2)
NOTES:										

(1) FACTORY MOUNTED SPEED CONTROL, 14" ROOF CURB, BACK-DRAFT DAMPER, AND DISCONNECT.
(2) BACK-DRAFT DAMPER, FACTORY MOUNTED SPEED CONTROL, AND WHITE ALUMINUM GRILLE.

# MECHANICAL LEGEND

REFRIGERANT SUCTION	N PIPING -	RS
REFRIGERANT LIQUID P	IPING — — — —	— —RL— — — — — —
BALL VALVE		<del>o</del>
UNION		——  <b>-</b>
CHECK VALVE		<b>──</b>
PIPING DROP		<del></del>
PIPING RISE		—ю
TEMPERATURE SENSOR	र	•
	DIFFUSER	
	RETURN GRILLE	
	FLEXIBLE DUCT (MAX 5'-0")	
	TURNING VANES	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	BALANCING DAMPER	
	H.E.T. WITH BALANCING DAMPER	
	DUCT TO DIFFUSER	
	DUCT WITH FLEX DUCT TO DIFFUSER	
	SUPPLY DUCT RISE	
	SUPPLY DUCT DROP	
	RETURN/EXHAUST DUCT RISE	
	RETURN/EXHAUST DUCT DROP	
	ROUND DUCT RISE	
	ROUND DUCT DROP	

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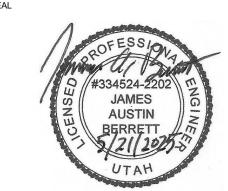
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MORIAL CATHOLIC RI

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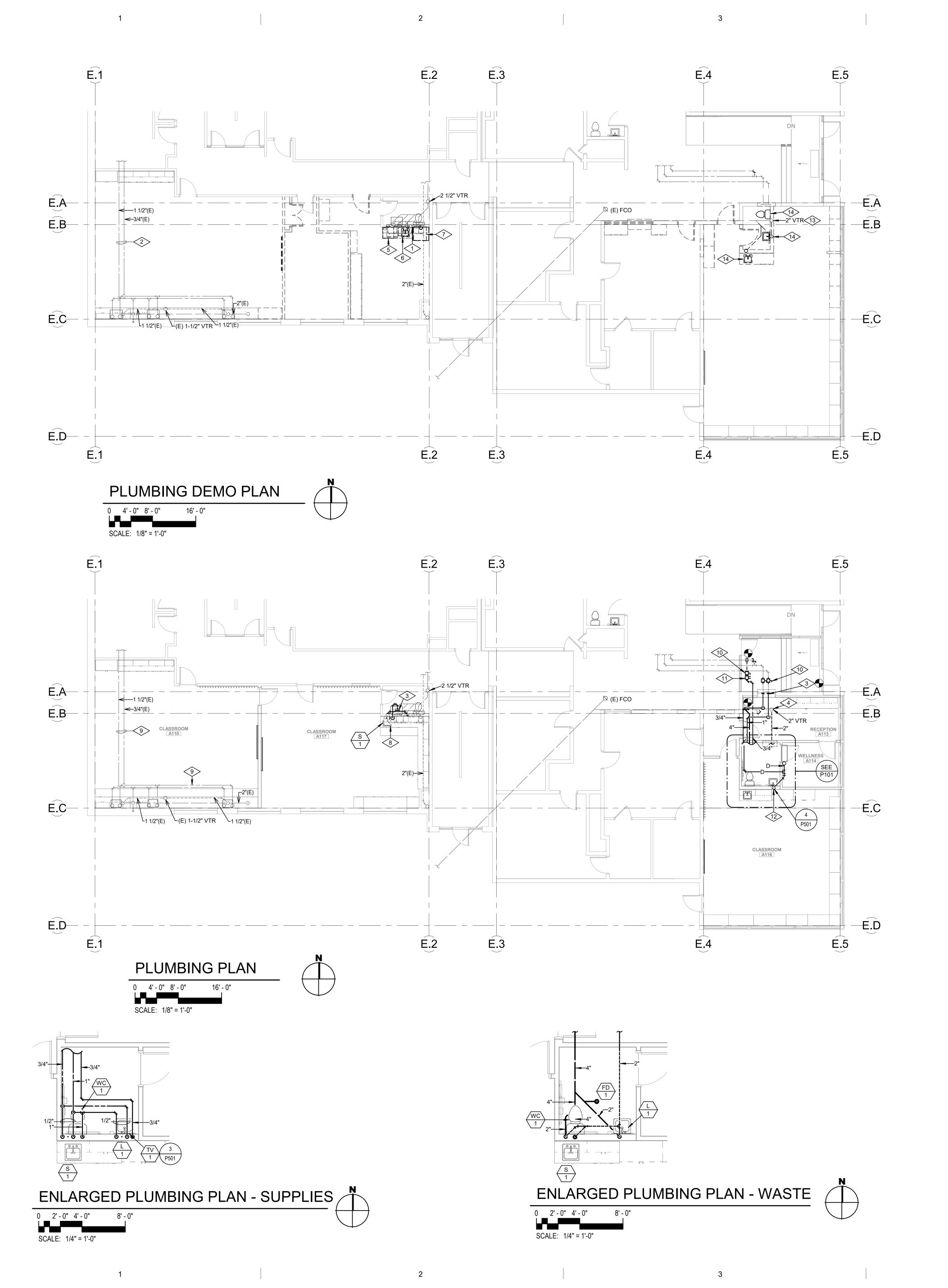
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E MECHANICAL SCHEDULES AND DETAILS

M501

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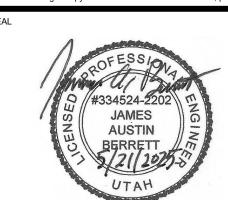
- 1 PIPING RISE FROM FLOOR BELOW.
- \_\_\_\_\_
- 2 PIPING TO RUN UNDERFLOOR.
- 3 CONNECT TO EXISTING PIPING AT APPROXIMATELY THIS LOCATION.
- 4 CONNECT NEW VENT PIPING TO EXISTING VENT THRU ROOF.
- 5 REMOVE EXISTING DISHWASHER AND SUPPLY PIPING INTO WALL.
- 6 REMOVE EXISTING SINK AND SUPPLY PIPING INTO WALL.
- REMOVE EXISTING FRIDGE AND SUPPLY PIPING INTO
- 8 PROVIDE NEW HOT AND WATER LINES TO NEW SINK FROM EXISTING PIPING IN WALL.
- 9 EXISTING PIPING TO REMAIN.
- 10 LINE SIZE BALL VALVE. VALVE MUST BE ACCESSIBLE
- 11 CALIBRATED BALANCING VALVE. CALIBRATE TO 0.5 GPM.
- 12 3/4" CONDENSATE DRAIN DOWN TO L-1. SEE DETAIL 4/P501.
- 13 EXISTING VTR TO REMAIN. COORDINATE WITH NEW WORK.
- 14 REMOVE EXISTING FIXTURE AND RELATED PIPING COMPLETE. CAP PIPING AT MAINS.



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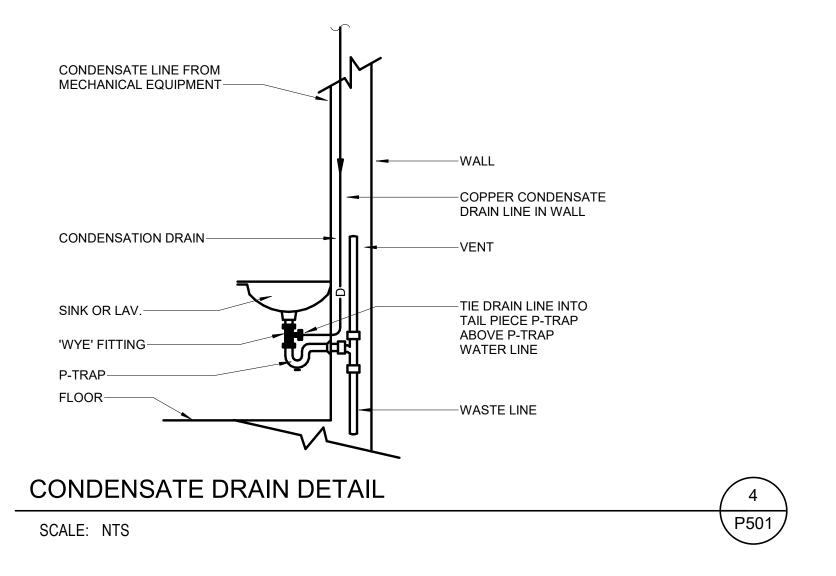
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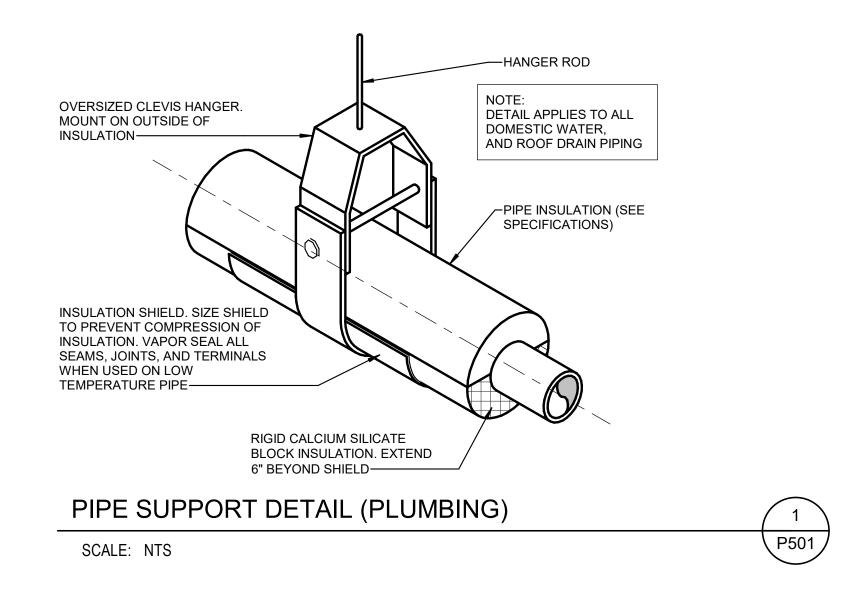
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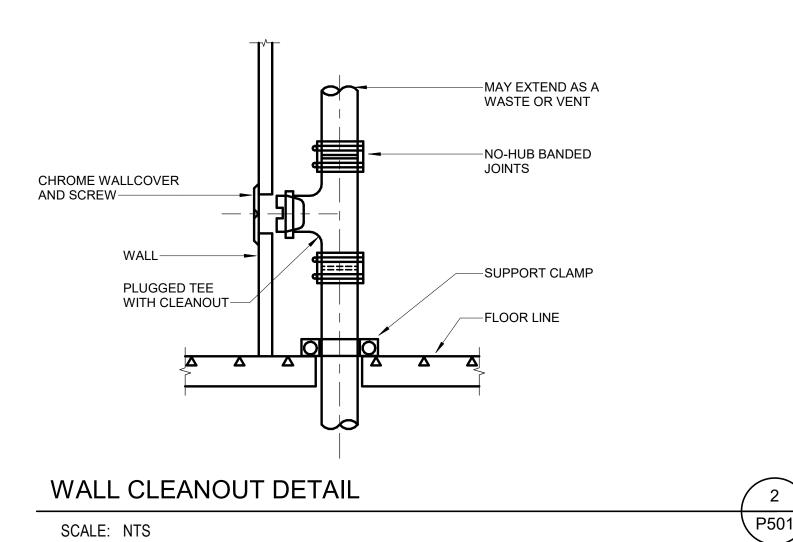
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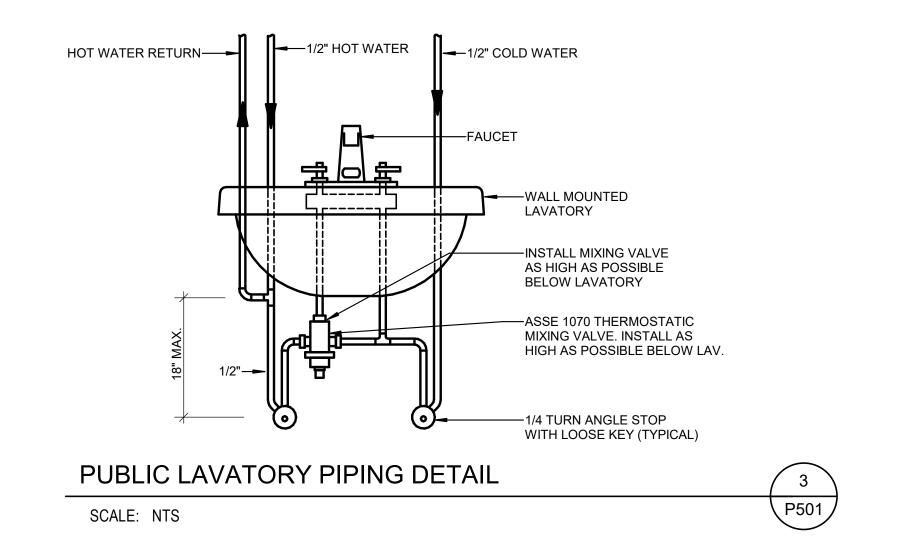
E PLUMBING PLANS

P101











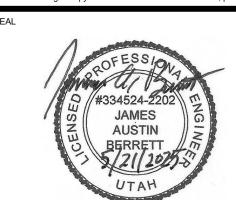
	PLUMBING FIXTURE SCHEDULE								
SYMBOL	FIXTURE	WASTE	VENT	C.W.	H.W.	NOTES			
$\frac{\text{WC}}{1}$	WATER CLOSET	4"	2"	1"		FLOOR MOUNTED - SENSOR FLUSH VALVE (ADA			
$\begin{pmatrix} L \\ 1 \end{pmatrix}$	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	WALL MOUNTED - SENSOR FAUCET WITH TEMPERING VALVE			
$\left \begin{array}{c} S \\ 1 \end{array}\right $	SINK	1-1/2"	1-1/2"	1/2"	1/2"	COUNTER MOUNTED			
$\overline{\text{FD}}$	FLOOR DRAIN	2"	1-1/2"			W/DEEP SEAL TRAP AND ASSE TRAP GUARD			

# PLUMBING LEGEND

COLD WATER	
HOT WATER	
HOT WATER RE-CIRC	
DRAIN PIPING	D
WASTE PIPING	
BALL VALVE	<u> </u>
UNION	
CHECK VALVE	<del></del>
CALIBRATED BALANCING VALVE	<u></u>
PIPING DROP	<del></del>
PIPING RISE	<del></del>
FLOOR CLEANOUT	FCO FCO
WALL CLEANOUT	WCO   G

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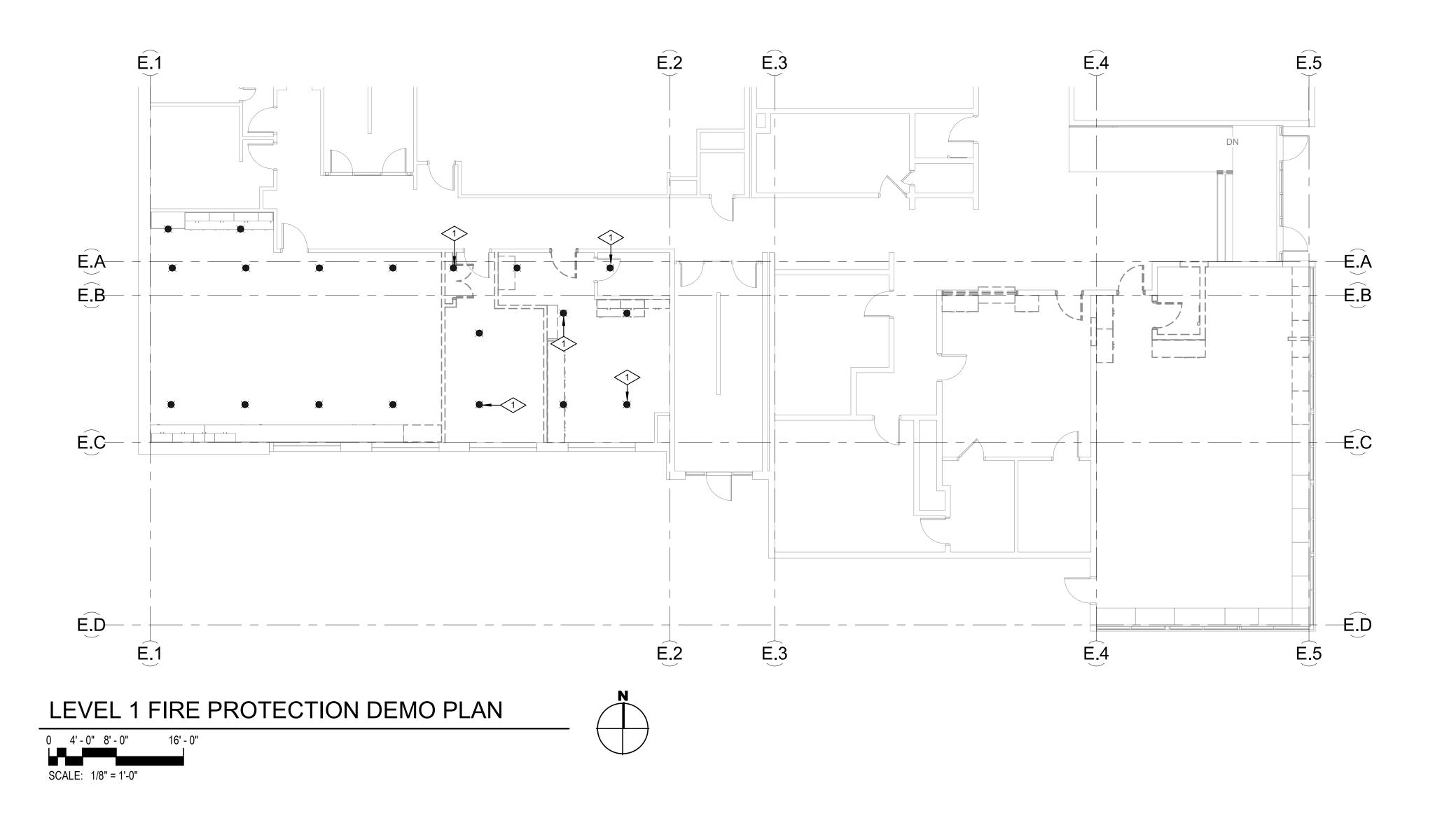


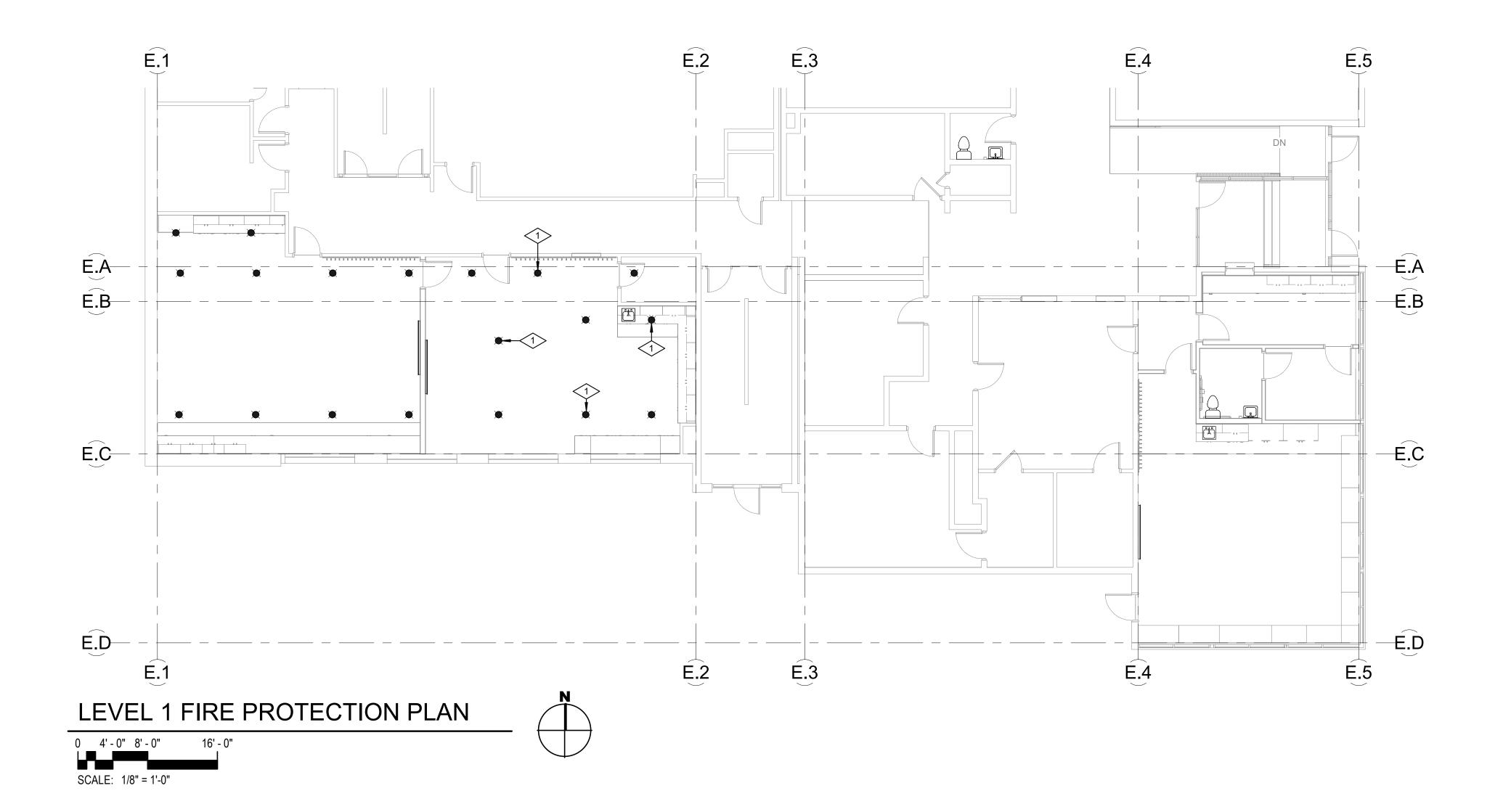
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E PLUMBING SCHEDULES AND DETAILS

P501





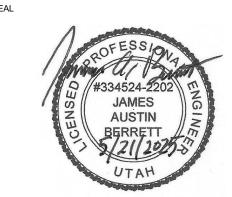
\* REFERENCE NOTES

1 REMOVE AND RE-INSTALL FIRE SPRINKLER HEAD AS NEEDED TO MATCH NEW CEILING SYSTEM (TYP).



# J.E. COSGRIFF

7	2	S) (V
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CONSTRUCTION DOCUMENTS
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FIRE PROTECTION PLAN

FP101

SECURITY	<b>/</b>							
####	IP SURVEILLANCE CAMERA - SEE CAMERA SURVEILLANCE TYPE SCHEDULE	NOTED	9. 10. 12.	DH	MAGNETIC DOOR HO	DLD OPENER	AS NOTED	8. 12.
NVR	NETWORK VIDEO RECORDER / SERVER		12.	ES	ELECTRIFIED DOOR	STRIKE	DOOR JAMB	8. 12.
DC		DOOR JAMB	12.	DP	INTRUSION DETECTI	ON DOOR / WINDOW CONTACT	DOOR JAMB	12.
DC 2	SPECIALIZED SWITCH / CONTACT (GARAGE DOOR, ROOF ACCESS DOOR / HATCH)		11. 12.	EL	ELECTRIFIED DOOR	LOCK	DOOR JAMB	8. 12.
DC 2	DR=DOOR RELEASE, LD=LOCKDOWN, PE=PUSH TO EXIT, T=TRANSMITTER, R=RECEIVER, H=HARDWIRED		12.	RX	ACCESS CONTROL F	REQUEST TO EXIT MOTION		8. 12.
$\langle MD \rangle \langle MD \rangle$	INTRUSION MOTION DETECTOR SOLID - WALL MOUNTED, DASHED = CEILING		12.	EC	ELECTRIFIED EXIT R	IM DEVICE (CRASH BAR)		8. 12.
GB> (GB)	GLASS BREAK DETECTOR: SOLID = WALL MOUNTED, DASHED = CEILING		12.	CR	ACCESS CONTROL C	CREDENTIAL CARD READER	+46"	1. 12.
AS> (AS)	INTRUSION DETECTION ALARM SIREN AND/OR STROBE		12.	BR	ACCESS CONTROL E	BIOMETRIC READER	+46"	1. 12.
PI	INTRUSION DETECTION POP-IT MODULE		12.	KS	KEY OVERRIDE SWIT	тсн	+46"	1. 12.
KP	INTRUSION DETECTION KEYPAD (ARM/DISARM)		12.	ICR	INTEGRATED LOCKS	SET WITH CREDENTIAL CARD READER		8. 12.
INT	IP TWO-WAY AUDIO & VIDEO INTERCOM (ANSWERING BASE STATION & DOOR STATION)		12.	KCR	ACCESS CONTROL C	CREDENTIAL CARD READER WITH KEYPAD	+46"	1. 12.
ML	ELECTROMAGNETIC LOCK (MAG LOCK)		8. 12.	WS	SECURITY WORKSTA	ATION		12.
⟨sc⟩ ⟨sc⟩	SMOKE & C/O DETECTOR COMBO: SOLID = WALL MOUNTED, DASHED = CEILING		12.	'ACS'	ACCESS CONTROL F	PANEL		12.
SH> (SH)	SMOKE & HEAT DETECTOR COMBO: SOLID = WALL MOUNTED, DASHED = CEILING		12.	'IDS'	INTRUSION DETECTI	ON PANEL		12.
VP	VAPE SENSOR CEILING	ING	12.	'PSP'	POWER SUPPLY PAN EQUIPMENT	NEL FOR ELECTRIFIED DOOR HARDWARE		12.
■ X	ADA ACTUATOR / WAVE			>    >	EQUIPMENT RACK	/ CABINET	AS NOTED	18. SEE SPEC.
^	DR=DOOR RELEASE, LD=LOCKDOWN, PE=PUSH TO EXIT,			>    >	EQUIPMENT 4-POS	T RACK / CABINET	AS NOTED	18. SEE SPEC.
XX X	DB=DURESS / PANIC: T=TRANSMITTER, R=RECEIVER, H=HARDWIRED				EQUIPMENT 2-POS	T RACK	AS NOTED	18. SEE SPEC.
AUDIOVISUAL								
HDU	TIDIMI IN CT, WILLE DATE WITH THOUBELL TIBLE CO CONCINCTION	8" OR NOTED	2. 9.	RxH		UT RECEIVER, WALL PLATE WITH BOX. SINGLE GANG MUDRING	BEHIND DISPLAY	2.
HV	HDMI AND VGA INPUT, WALL PLATE WITH HUBBELL +18	8" OR NOTED	2. 9.			LING RECESSED OR PENDANT	CEILING	
ТхН	HDBaseT, HDMI INPUT TRANSMITTER, WALL PLATE WITH +18	0" OD	2. 9.	SB#	SOUND BAR, REFER	R TO SPECIFICATIONS FOR TYPE	UNDER DISPLAY	2. 19.
TxD	HDBaseT, HDMI AND VGA TRANSMITTER, WALL PLATE +18	0" OD	2. 9.	D##	COMMERCIAL GRAD	DE DISPLAY, ## = SIZE (INCHES)	AS NOTED	20.
TxM	HDBaseT, HDMI, DISPLAY PORT AND/OR VGA TRANSMIT, UN	NDER	9.	SC#		EN. REFER TO SPECIFICATIONS / REEN TYPE AND SIZE	WALL OR CEILING	2.
ТхТ	HDBaseT CATEGORY 6A SF/UTP, WALL PLATE WITH +18	0" OD	2. 9.	P# 1	COMMERCIAL GRAD		WALL OR CEILING	2.
COLOR LEGE							55,51115	
	LIGHTING FIXTURES		POWER DEVICES			AUDIOVISUAL		
	LIGHTING DEVICES		TELECOMMUNICATION	ONS		SECURITY		
	POWER EQUIPMENT		FIRE ALARM			NURSECALL		
	CABLE TRAY		CONDUIT					

	INFORMATION AND VENDOR CONTRACTS (INCLUDE WITHIN BID)
BIDDING DIVISION 26 CONTRACTOR RESPO	NSIBLE FOR EXPANDING EXISTING SYSTEMS FOR THIS REMODEL PROJECT. PROVIDE A TURN-KEY FED SYSTEMS I.E. INTERCOM, FIRE ALARM, ACCESS CONTROL, AND INTRUSION.
CLASSROOM AV SYSTEM COMPANY	AUDIO ENHANCEMENT SYSTEM  AUDIO ENHANCEMENT [AE]
CONTACT	DEVON MEANS
CELL PHONE NO.	(801) 916-1392
OFFICE PHONE NO.	(800) 383-9362
EMAIL	Devon.Means@audioenhancement.com
SYSTEM COMPONENTS. PROVIDE SHOP DR.	ORDINATE ALL BIDDING, INSTALLATION, AND SETUP OF OWNER-FURNISHED OR SPECIFIED AVIAWINGS OF THE COMPLETE AV SYSTEM FOR ENGINEER REVIEW AND APPROVAL.\$
FIRE ALARM SYSTEM - E	EXISTING MIRCOM-FX-351 FIRE ALARM SYSTEM
COMPANY	POWERED CONTROL SYSTEMS [PCS]
CONTACT	NELSON POWERS
CONTACT CELL PHONE NO.	(801) 916-6710
	(801) 916-6710 (801) 576-6634
CELL PHONE NO.	(801) 916-6710
CELL PHONE NO.  OFFICE PHONE NO.  EMAIL  EXTEND EXISTING FIRE ALARM INTIATION/N SYSTEM WIRING. UPDATE PROGRAMMING.	(801) 916-6710 (801) 576-6634
CELL PHONE NO.  OFFICE PHONE NO.  EMAIL  EXTEND EXISTING FIRE ALARM INTIATION/N SYSTEM WIRING. UPDATE PROGRAMMING.  ACCESS CONTROL SYSTEM	(801) 916-6710  (801) 576-6634  nelson@poweredcontrolsystems.com  IOTIFICATION CIRCUITS TO ACCOMMODATE NEW FIRE ALARM DEVICES AS REQUIRED. MATCH
CELL PHONE NO.  OFFICE PHONE NO.  EMAIL  EXTEND EXISTING FIRE ALARM INTIATION/N SYSTEM WIRING. UPDATE PROGRAMMING.	(801) 916-6710  (801) 576-6634  nelson@poweredcontrolsystems.com  IOTIFICATION CIRCUITS TO ACCOMMODATE NEW FIRE ALARM DEVICES AS REQUIRED. MATCH  TEM - SCHNEIDER ELECTRIC, TAC I/NET
CELL PHONE NO.  OFFICE PHONE NO.  EMAIL  EXTEND EXISTING FIRE ALARM INTIATION/N SYSTEM WIRING. UPDATE PROGRAMMING.  ACCESS CONTROL SYSTEM COMPANY	(801) 916-6710  (801) 576-6634  nelson@poweredcontrolsystems.com  IOTIFICATION CIRCUITS TO ACCOMMODATE NEW FIRE ALARM DEVICES AS REQUIRED. MATCH  TEM - SCHNEIDER ELECTRIC, TAC I/NET  UTAH YAMAS CONTROLS
CELL PHONE NO.  OFFICE PHONE NO.  EMAIL  EXTEND EXISTING FIRE ALARM INTIATION/N SYSTEM WIRING. UPDATE PROGRAMMING.  ACCESS CONTROL SYSTEM COMPANY  CONTACT	(801) 916-6710  (801) 576-6634  nelson@poweredcontrolsystems.com  IOTIFICATION CIRCUITS TO ACCOMMODATE NEW FIRE ALARM DEVICES AS REQUIRED. MATCH  TEM - SCHNEIDER ELECTRIC, TAC I/NET  UTAH YAMAS CONTROLS

# SYMBOL LEGEND

- SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.
   HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISHED FLOOR.
- 3. REFER TO DRAWINGS FOR DIRECTIONAL ARROWS. 4. SUBSCRIPT INDICATES FIXTURES TO BE CONTROLLED. 5. NEMA TYPE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED). USE 'HD' 480 V.
- Nema Tipe No Non-Posed Unless Noted F (Fosed). Use No 46.
   Height Measured to Top of the Box from Finished Floor.
   PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.
   DOUBLE ARROWS INDICATES A DOUBLE FACE UNIT. 9. DEVICES NOTED WITH AN 'A' INDICATE TO COORDINATE WITH MILLWORK SHOP

BEAM DETECTOR

- 10. SUBSCRIPT INDICATES NEMA CONFIGURATION. 11. SOLID BOX AROUND DEVICE INDICATES INSTALLED IN FLOOR. DASHED BOX AROUND
- DRAWINGS AND ELEVATIONS FOR HEIGHT. DEVICE INDICATES INSTALLED IN CEILING.

## 12. COORDINATE WITH DOOR HARDWARE SUPPLIER. 13. FOR WATER COOLER LOCATION, SEE DIAGRAM R002. FOR ALL OTHER LOCATIONS, MOUNT AT +16" TO BOTTOM OF BOX FROM FINISHED FLOOR, OR AS NOTED.

- 14. ARROWS SHOWN ON DEVICE INDICATE AIMING DIRECTION. 15. CAMERA NUMBERS ARE SHOWN INSIDE THE CAMERA SYMBOL. CAMERA TYPES ARE INDICATED IN TAG.
- 16. MOUNT ON TRACK OF OVERHEAD DOOR, 6" FROM TOP OF DOOR, UNLESS OVERHEAD DOOR IS A ROLL UP DOOR, THEN MOUNT PER MANUFACTURER'S INSTRUCTIONS. 17. INSTALL DEVICES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. 18. DASHED LINE INDICATES EQUIPMENT CLEARANCES. ARROW INDICATES FRONT OF RACK.
- 19. SPEAKER TO BE MOUNTED IN HORIZONTAL POSITION. 20. MOUNTING HEIGHT IS TO BOTTOM OF DISPLAY.

# \*TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED ON THIS SET OF DRAWINGS.

DEVICE	: INDICATES INSTALLED IN CEILING.				*TYPICAL SYMI	BOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED ON THIS SET O	F DRAWINGS.	
STANDARD MO	OUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS							
GENERAL								
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES		SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
-	CIRCUIT, HOME RUN TO PANEL					EQUIPMENT PANEL, SEE DRAWINGS	+72"	6.
	CONDUIT RUN CONCEALED IN WALL OR CEILING				<u> </u>	CABLE TRAY	AS NOTED	
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND					GROUND BUS BAR	+18"	6.
O	CONDUIT UP				X	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
•	CONDUIT DOWN				$\left\langle \begin{array}{c} X \\ X \end{array} \right\rangle$	EQUIPMENT NUMBER		
	CONDUIT STUB LOCATION	CAP CONDUIT			Х	ARCHITECTURAL ROOM NUMBER		
	CONDUIT / CIRCUIT CONTINUATION				X	DEVICE / EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE		
					X	DEVICE / EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE / LEGEND		
	TEM SYMBOLS [ALL 120V RECEPTACLES SHALL BE CONSIDERED	TAMPERPROO ABOVE	F]	i				
<u> </u>	RECEPTACLE SWITCH PACK  UPPER OUTLET	CEILING +18" OR			J F	JUNCTION BOX ('F' IN FLOOR)	AS NOTED TO SUIT	
	DUPLEX RECEPTACLE SWITCH CONTROLLED	AS NOTED +18" OR	2. 9.			MOTOR OUTLET	EQUIP.	2.
<u> </u>	SIMPLEX RECEPTACLE	AS NOTED +18" OR	2. 9.			PUSHBUTTON NON FURTHER DISCONNECT CONTTOL	+46"	2.
-	DUPLEX RECEPTACLE	AS NOTED	2. 9. 11. 9.		F	NON-FUSED DISCONNECT SWITCH	+60"	5. 6.
$A \longrightarrow A$	DUPLEX RECEPTACLE  5mA GFCI CIRCUIT BREAKER PROTECTED		13.		В	FUSED DISCONNECT SWITCH  BREAKER DISCONNECT SWITCH	+60"	5. 6. 5. 6.
$\begin{array}{c} & \bigoplus_{G} \\ & & \end{array}$ WP	RECEPTACLE WEATHERPROOF RECEPTACLE	+24" OR	2. 9.		\$	SINGLE POLE SWITCH	+46"	2. 4.
WP WP	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	AS NOTED +18" OR	2. 9.		Φ,	MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT	+46"	2. 4.
	DUPLEX RECEPTACLE EMERGENCY POWER (RED)	AS NOTED +18" OR	2. 9. 11.		<b>9</b>	LIGHT MAGNETIC STARTER	+60"	6. 7.
_ <del>_</del>	FOURPLEX RECEPTACLE	AS NOTED +18" OR	2. 9. 11.			MAGNETIC STARTER / DISCONNECT COMBINATION	+60"	6. 7.
	GROUND FAULT INTERRUPTER FOURPLEX RECEPT	AS NOTED +18" OR	2. 9.		VFD	VARIABLE FREQUENCY DRIVE	+66"	6.
LIGHTING	G.100107710271102711071127110071112271120271	AS NOTED	2. 0.			VIIII DEE THE GOETIE TO BRIVE		0.
	CEILING LIGHT FIXTURE	CEILING	1.		(PP)	POWER PACK		SEE DIAGRAM,
$\overline{\mathbb{H}}$	WALL LIGHT FIXTURE	AS NOTED	1.		RC X	DIGITAL ROOM CONTROLLER	ABOVE	SPEC. SEE DIAGRAM,
	RECESSED DOWNLIGHT FIXTURE	CEILING	1.	1	EP)	(SUBSCRIPT INDICATES NUMBER OF RELAYS)  EMERGENCY LIGHTING CONTROL UNIT	CEILING ABOVE CEILING	SPEC. SEE DIAGRAM, SPEC.
	RECESSED WALL-WASH DOWNLIGHT FIXTURE	CEILING	1.		<b>\$</b> 3	THREE-WAY SWITCH	+46"	2. 4.
0	LIGHT FIXTURE	AS NOTED	1.	1	\$ <sup>4</sup>	FOUR-WAY SWITCH	+46"	2. 4.
	EGRESS LIGHT FIXTURE	AS NOTED	1.		<b>\$</b> K	KEY OPERATED SWITCH	+46"	2. 4.
• <b>-I</b> )()>	AREA LIGHT POLE AND FIXTURE POST TOP LIGHT POLE AND FIXTURE	CONCRETE BASE	1. 14. SEE DIAGRAM		<b>\$</b> P	SWITCH WITH PILOT LIGHT	+46"	2. 4.
	BOLLARD	CONCRETE BASE	1. 14. SEE DIAGRAM	1	<b>\$</b> D	VARIABLE INTENSITY SWITCH	+46"	2. 4.
	STEP LIGHT FIXTURE	AS NOTED	1.		\$ <sup>TM</sup>	TIMER SWITCH	+46"	2. 4.
0	IN-GRADE LIGHT FIXTURE	CONCRETE BASE	1.		\$	MOMENTARY CONTACT SWITCH	+46"	2. 4.
$\Diamond$	FLOOD OR TRACK FIXTURE	AS NOTED	1.		X	LOW VOLTAGE WALLSTATION (SUBSCRIPT INDICATES CONFIGURATION & CONTROL SEQUENCE)	+46"	2. SEE DIAGRAM, SPEC.
$\otimes$ $\otimes$	CEILING / WALL MOUNTED EXIT LIGHT	CEILING/ AS NOTED	1. 3. 8.			DUAL TECH. CEILING MOUNTED OCCUPANCY SENSOR (PROVIDE WITH ALL PP AND ROOM CONTROLLERS)	CEILING	SEE DIAGRAM, SPEC.
	EMERGENCY LIGHT FIXTURE	AS NOTED	1.		Н	DUAL TECH. WALL MOUNTED OCCUPANCY SENSOR (SUBSCIPT D = DIMMING AND DAYLIGHT CONTROL)	+46"	2. 4. SEE DIAGRAM, SPEC.
	COMBO EXIT / EMERGENCY LIGHT FIXTURE	AS NOTED	1.		P	PHOTO-ELECTRIC CONTROL (LOCATE ON ROOF, FACE NORTH)	AS NOTED	MOUNT AS PER MFR.
TC	TIME CLOCK	+60"	2.	L		DIGITAL DAYLIGHT SENSOR	CEILING	SEE DIAGRAM, SPEC.
	20V RECEPTACLES SHALL BE CONSIDERED TAMPERPROOF]	+18" OR AS					LAC!! OD AC	
⇒ IG	ISOLATED GROUND RECEPTACLE	+18 OR AS NOTED +18" OR AS	2. 9.		<u> </u>	PLUGMOLD  FLAT PANEL DISPLAY WALL BOX TVSS RECEPT., DATA AND	+46" OR AS NOTED	2. SEE SPEC. SEE DIAGRAM,
— U	DUPLEX RECEPTACLE WITH USB OUTLET	NOTED +18" OR AS	2. 9.		(DP)	OTHER DEVICES, REFER TO DIAGRAMS	AS NOTED  ABOVE	SPEC. 26 2726 SEE DIAGRAM.
<del>-</del>	CONTROLLED DUPLEX RECEPTACLE	NOTED +18" OR AS	2. 9.		(CP)	CEILING PROJECTION SYSTEM CEILING BOX	CEILING	SPEC.
	FOURPLEX RECEPTACLE EMERGENCY POWER (RED)	NOTED +18" OR AS	2. 9. 11.			DOORBELL CHIME	+90"	2. SEE DIAGRAM.
<del>-</del>	CONTROLLED FOURPLEX RECEPTACLE	NOTED +18" OR AS	2. 9.		(PT)	FLOOR BOX - SEE SCHEDULE	FLOOR	SPEC. SEE DIAGRAM,
<u> </u>	TVSS PROTECTED RECEPTACLE  SPECIAL PURPOSE OUTLET	NOTED +18" OR AS	2. 9. 2. 10. W/ CAP.		(PI)	POKE THRU - SEE SCHEDULE	FLOOR	SPEC.
•	CORD DROP	NOTED	SEE DIAGRAM			PANELBOARD  MAIN DISTRIBUTION PANEL		
	CORD REEL		SEE DIAGRAM			TELEPHONE DEMARCATION BOARD	_	
	TOMBSTONE RECEPTACLE		SEE DIAGRAM		ÇLĞ	EQUIPMENT CEILING RACK	CEILING	
	POWER POLE				>	EQUIPMENT 4-POST RACK / CABINET	AS NOTED	18. SEE SPEC.
(EV) (EV)	SINGLE / DUAL PORT ELECTRICAL VEHICLE CHARGER					EQUIPMENT 2-POST RACK	AS NOTED	18. SEE SPEC.
					M	UTILITY METER / CT CABINET	+72"	6.
TELECOMMUNIC	CATIONS							
×> <sub>W</sub>	WALL PHONE "XX" INDICATES PURPOSE: SC = SECURITY, AV = AUDIOVISUAL	+60" OR AS NOTED	2.		XX XX WAP WAP	WIRELESS ACCESS POINT, TWO CABLES SOLID = WALL, DASHED = CEILING	WALL / CEILING	11.
×>	DATA OUTLET, ONE CABLE  "XX" INDICATES PURPOSE: SC = SECURITY, AV = AUDIOVISUAL	+18" OR AS NOTED	2. 9. 11.	1		"XX" INDICATES PURPOSE: SC = SECURITY, AV = AUDIOVISUAL	5_121140	
×	DATA OUTLET, TWO CABLES "XX" INDICATES PURPOSE: SC = SECURITY, AV = AUDIOVISUAL	+18" OR AS NOTED	2. 9. 11.		SPL	SPLITTER	ABOVE CEILING	
×	DATA OUTLET, THREE CABLES "XX" INDICATES PURPOSE: SC = SECURITY, AV = AUDIOVISUAL	+18" OR AS NOTED	2. 9. 11.		VIA	VIA	ABOVE CEILING	
×××x	DATA OUTLET, "X" INDICATES QUANTITY "XX" INDICATES PURPOSE: SC = SECURITY, AV = AUDIOVISUAL	+18" OR AS NOTED	2. 9. 11.		BDA	FIBER BDA	ABOVE CEILING	
	DATA OUTLET, SOLID = FLOOR, DASHED = CEILING "XX" INDICATES PURPOSE: SC = SECURITY, AV = AUDIOVISUAL		11.		ANT XX	ANTENNA PS = PUBLIC SAFETY, COM = CELLULAR/COMMERCIAL	CEILING	
	TELEVISION OUTLET, SOLID = FLOOR, DASHED = CEILING	+18" OR AS NOTED	9. 11.					
FIRE ALARM								
	BELL	+94"	2.		⊚ <sub>s</sub>	SMOKE DETECTOR	CEILING	
С	CHIME / STROBE	+94" / CEILING	2.		○ sc	SMOKE/CARBON MONOXIDE DETECTOR	CEILING	
F	FIRE ALARM MANUAL STATION	+46"	2.		© <sub>c</sub>	CARBON MONOXIDE DETECTOR	CEILING	
Н	FIRE ALARM SIGNAL HORN / STROBE	+94" / CEILING	2.		○ <sub>H</sub>	HEAT DETECTOR	CEILING	
[H] CLG	CONCEALED FIRE ALARM HORN / STROBE	CEILING			O <sub>D</sub>	DUCT SMOKE DETECTOR		MTD. IN DUCT
Пн	CONCEALED FIRE ALARM HORN / STROBE WALL	+94"	2.		D	FIRE/SMOKE DAMPER		
E	FIRE ALARM SPEAKER / STROBE	+94" / CEILING	2.			DOOR HOLDER	AS NOTED	
[E] CLG	CONCEALED FIRE ALARM SPEAKER / STROBE	CEILING			FS	FLOW SWITCH		
<u> </u>	CONCEALED FIRE ALARM SPEAKER / STROBE WALL	+94" +94" /	2.	-	TS	TAMPER SWITCH		
5	FIRE ALARM STROBE	CEILING	2.	-	WF	WATER FLOOD INDICATOR		05550
[S]CLG	CONCEALED FIRE ALARM STROBE	CEILING		-		O.S. & Y. VALVE		SEE DIAGRAM
S	CONCEALED FIRE ALARM STROBE WALL	+94" +94" /	2.		R	FIRE ALARM CONTROL MODULE		
K	FIRE ALARM SPEAKER ONLY FIRE ALARM STROBE WITH	CEILING +94" /	2.	-	CM MM	FIRE ALARM CONTROL MODULE  FIRE ALARM MONITOR MODULE		
ANN	BLUE COLORED LENS (CO VISUAL ALARM)  FIRE ALARM ANNUNCIATOR PANEL	CEILING +58"	2. 2. SEE DIAGRAM	-	TWZ	TWO-WAY COMMUNICATION SYSTEM CONTROL	+46"	2.
	ASPIRATING SMOKE DETECTION SYSTEM	CEILING	MOUNT AS PER		TW	PANEL TWO-WAY COMMUNICATION SYSTEM CALL STATION	+46"	2.
	. C. II WITH CONOINE DETECTION STOTEM	3_1_1110	MFR.	-	1 1 1 1	1440-44A1 COMMUNICATION STSTEM CALL STATION	- +0	۲.

# **GENERAL NOTES**

- . CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC) OF ALL EQUIPMENT FURNISHED UNDER ALL DIVISIONS, INCLUDING ALL EXISTING EQUIPMENT TO BE RE-USED.
- REVIEW ALL SHOP DRAWINGS AND EXISTING EQUIPMENT BEFORE BEGINNING ROUGH-IN. SEE SECTION 265100 (16510) OF THE SPECIFICATION FOR REQUIRED COORDINATION MEETINGS WITH
- MECHANICAL AND CEILING CONTRACTORS. SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER
- 6. SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.
- FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.

COUNTER EQUIPMENT.

- THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
- ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
- 0. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
- I. CONTRACTOR SHALL VERIFY FURNITURE LAYOUT PRIOR TO ANY FLOORBOX OR POKE-THRU INSTALLATION. COORDINATE EXACT LOCATION OF FLOOR BOX OR POKE-THRU WITH OWNER AND FURNITURE PROVIDER PRIOR
- 2. CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 115' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH CONDUCTORS PER TABLE BELOW.

MAXIMUM LENGTH	BRANCH CIRCUIT VOLTAGE							
CONDUCTOR LENGTH (FT)	120 VOLT	277 VOLT						
<70	MIN. #12 AWG	MIN. #12 AWG						
70 - 115	MIN. #10 AWG	MIN. #12 AWG						
115 - 170	MIN. #8 AWG	MIN. #10 AWG						
170 - 270	MIN. #6 AWG	MIN. #8 AWG						
271 - 380	NOTE B	MIN. #8 AWG						
>380	NOTE B	NOTE B						

- A. THESE ARE BASED ON MAXIMUM LENGTH OF CIRCUIT.
- B. PERFORM VOLTAGE DROP CALCULATIONS AND PROVIDE CONDUCTOR SIZE TO KEEP BRANCH CIRCUIT VOLTAGE DROP LESS THAN 3% WITH A 15 AMP LOAD.
- C. CONTRACTOR SHALL ENSURE THAT THE INSTALLATION OF EACH BRANCH CIRCUIT STAYS WITHIN 3% VOLTAGE DROP FOR A 15 AMP LOAD. IF NECESSARY, CONTRACTOR SHALL INCREASE WIRE AND CONDUIT SIZE TO MEET THE STANDARD AT NO ADDITIONAL COST TO

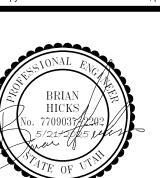
	ABBREVIA	TION	S INDEX
ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
#	NUMBER	МН	MANHOLE
AC	ALTERNATING CURRENT	MIC	MICROPHONE
A.F.F.	ABOVE FINISH FLOOR	MIN	MINIMUM
AIC	AMPS INTERRUPTING CAPACITY	MTG	MOUNTING
AM	AMPS METER	MTR	MOTOR
AMP	AMPERE	N/A	NOT APPLICABLE
ANN	ANNUNCIATOR	NC	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
AUX	AUXILIARY	NEMA	NATIONAL ELECT. MANUFAC. ASSOC.
AWG	AMERICAN WIRE GAUGE	NFPA	NATIONAL FIRE PROTECTION ASSOC.
ВС	BARE COPPER	N.I.C.	NOT IN CONTRACT
BFG	BELOW FINISH GRADE	NO	NORMALLY OPENED
С	CONDUIT	NTS	NOT TO SCALE
CAB	CABINET	OS & Y	OUTSIDE SCREW & YOKE
CATB	COMMUNITY ANTENNA TELEVISION	PB	PUSHBUTTON
CATV	CABLE TELEVISION	PF	POWER FACTOR
CKT	CIRCUIT	PFR	PHASE FAILURE RELAY
CLG	CEILING	PNL	PANEL
CNTR	CONTRACTOR	PT	POTENTIAL TRANSFORMER
C.O.	CONDUIT ONLY	PVC	POLYVINYL CHLORIDE CONDUIT
CRT	COMPUTER TERMINAL	(R)	RELOCATE
CT	CURRENT TRANSFORMER	RECEP	RECEPTACLE
CU	COPPER	REQ	REQUIREMENT
C/W	COMPLETE WITH	RLA	RATED LOAD AMPS
DB	DECIBEL	RMP	ROCKY MOUNTAIN POWER
DC	DIRECT CURRENT	RMS	ROOT MEAN SQUARE
DWG	DRAWING	SE	SERVICE ENTRANCE
[E]	EXISTING TO REMAIN, UNLESS	SPEC	SPECIFICATIONS
EC	OTHERWISE NOTED EMPTY CONDUIT	SPKR	SPEAKER
EG	EMERGENCY GENERATOR	SS	SELECTOR SWITCH
EMT	ELECTRICAL METALLIC TUBING	SW	SWITCH
EX	EXPLOSION PROOF	SWBD	SWITCHBOARD
FACP	FIRE ALARM CONTROL PANEL	SWGR	SWITCHGEAR
FC	FOOT CANDLE	TTB	TELEPHONE TERMINAL BOARD
FT	FOOT	TTC	TELEPHONE TERMINAL CABINET
GFI	GROUND FAULT INTERRUPTER	TV	TELEVISION
GND	GROUND	TYP	TYPICAL
GRC	GALVANIZED RIGID CONDUIT	UG	UNDERGROUND
HP	HORSE POWER	UPS	UNINTERRUPTED POWER SUPPLY
HZ	HERTZ	V	VOLT (KV-KILOVOLT)
IFC	INTERNATIONAL FIRE CODE	VA/R	VOLT-AMPS/REACTIVE
IG	ISOLATED GROUND	VM	VOLT-AWF-3/REACTIVE  VOLT METER
IMC	INTERMEDIATE METALLIC CONDUIT	W	WATTS
		W/	
IN	INCH		WITH
J-BOX	JUNCTION BOX	WH	WATTHOUT METER
KVA	KILOVOLT AMPERES	W/O WP	WITHOUT
KVA	KILOVADS		WEATHERPROOF
KVAR	KILOWATT	XFMR SW	TRANSFORMER TRANSEER SWITCH
KW	KILOWATT	XFMR SW	TRANSFER SWITCH
LRA	LOCKED ROTOR AMPS	XP 1P	EXPLOSION PROOF
LTG	LIGHTING		SINGLE-PHASE
MNF	MANUFACTURER	2P	TUPES POLE
MAX	MAXIMUM	3P	THREE-POLE
MB	MAIN BUS	4P	FOUR-POLE
MCC	MOTOR CONTROL CENTER	Ø	PHASE
MCM	1000 CIRCULAR MILLS		

	SHEET INDEX
E001 E002 E060 E061	ELECTRICAL SYMBOLS AND NOTES SCHEDULE & NOTES ELECTRICAL DIAGRAMS SECURITY DIAGRAMS
ED101	ELECTRICAL DEMOLITION PLAN
E101	ELECTRICAL PLANS



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MHTN PROJECT NO. 2024579

LAST REVISION DATE.

NO. 

DATE

DESCRIPTION

CONSTRUCTION DOCUMENTS MAY 21, 2025

SHEET NAME ELECTRICAL SYMBOLS AND NOTES

			LIGHT FIXTURE SCH	HEDUI	F						
			LIGHT FIXTURE ABBREVIATION SCHEDUL					PROJECT M	ANAGER: DRA	/TON BAILE	<u> </u>
A.F.F. WALL@CL CCBA	ABOVE FINISH FLOOR  G WALL MOUNT AT CORNER OF WALL AND CEILING CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT		CFBA CUSTO	M FINISH AS SELE	OR AS SELECTED COTED BY THE ARC LECTED BY THE AF	HITECT	CT				
			LIGHT FIXTURE GENERAL NOTES								
1.	REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF IBIDDING.	LIGHT FIXTURES AN		L DISCREPANCIES	OF LOCATIONS AN	ND QUANTITIES TO	O THE ATTENTION O	F THE ARCHITECT	AND ELECTRIC	AL ENGINEE	R PRIOR TO
2.	REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCA	TIONS OF LIGHT FI	XTURES. BRING ALL DISCREPENCIES TO THE ATTENTION OF THE AF	RCHITECT PRIOR T	TO BIDDING.						
3.	REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, FUSING, LED DR	IVERS, AND LAMP F	REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.								
4.	CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPA										
5.	REFER TO LIGHTING PLANS FOR ALL LINEAR FIXTURE LENGTHS. THE CATALO TO ACHIEVE THE OVERALL RUN LENGTH.	G NUMBER IS BASE	D ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANTI	ITY OR OVERALL L	ENGTH OF LINEAR	FIXTURES REQUI	RED. CONTRACTOR	TO NOTE THAT VA	ARIOUS FIXTUR	E LENGTHS I	MAY BE REQUIRED
6.	REFER TO LIGHTING PLANS FOR ALL UNDERCABINET FIXTURE LENGTHS. THE MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTH OR TO FIT WITHIN					THE UNDERCAB	INET FIXTURES REQ	UIRED. CONTRAC	TOR TO NOTE T	HAT VARIOU	JS FIXTURE LENGTHS
7.	WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND	THE DESCRIPTION	, NOTIFY THE ELECTRICAL ENGINEER AND/OR LIGHTING DESIGNER.								
8.	PRIOR APPROVALS ARE REQUIRED BEFORE BIDDING THE PROJECT AND SHALL	L BE SUBMITTED T	O THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) EIGHT WORKI	ING DAYS BEFORE	THE BID. PRIOR A	PPROVALS RECEI	VED AFTER THIS TIM	IE PERIOD SHALL	BE REJECTED.		
9.	REFER TO SPECIFICATIONS 20 0500, 26 5100 & 26 5600 (16001, 16510 & 16551).										
10.	VALUE ENGINEERING CONDUCTED WITHOUT THE DESIGN TEAM IE; ARCHITEC	T, ENGINEER & LIG	HTING CONSULTANT/DESIGNER WILL NOT BE ALLOWED, REVIEWED	OR APPROVED.							
TYPE	DESCRIPTION	MFR.	CATALOG#	VOLTS	TOTAL WATTS	LAMP TYPE	DIMMING TYPE	DELIVERED LUMENS	COLOR	CRI	ALTERNATE MFR
A4H	2'X4' LED FLAT PANEL LUMINAIRE; HIGH TRANSMISSION EXTRUDED LOW GLARE PMMA FROSTED ACRYLIC LENS, ULTRA-THIN <2" H; SCRATCH AND IMPACT RESISTANT; RECESSED INTO ACCESSIBLE ARCHITECTURAL CEILING; EASY TO CLEAN; 100,000 HOUR [L70]; DLC LISTED; 5 YR. WARRANTY; 0-10 DIMMING; FIELD-SELECTABLE LUMEN OUTPUT [HIGH, 4000K]	ILP	VPAN24-33L/44L/55L-U-CCTS	277 V	49 VA	LED	0-10	6,466	4000 K	80+	
A4HE	2'X4' LED FLAT PANEL LUMINAIRE; HIGH TRANSMISSION EXTRUDED LOW GLARE PMMA FROSTED ACRYLIC LENS, ULTRA-THIN <2" H; SCRATCH AND IMPACT RESISTANT; RECESSED INTO ACCESSIBLE ARCHITECTURAL CEILING; EASY TO CLEAN; 100,000 HOUR [L70]; DLC LISTED; 5 YR. WARRANTY; 0-10 DIMMING; FIELD-SELECTABLE LUMEN OUTPUT [HIGH, 4000K], 10W LED SELF-DIAGNOSING BATTERY BACKUP	ILP	VPAN24-33L/44L/55L-U-CCTS-EM10/HE/SD	277 V	49 VA	LED	0-10	6,466	4000 K	80+	
A4M	2'X4' LED FLAT PANEL LUMINAIRE; HIGH TRANSMISSION EXTRUDED LOW GLARE PMMA FROSTED ACRYLIC LENS, ULTRA-THIN <2" H; SCRATCH AND IMPACT RESISTANT; RECESSED INTO ACCESSIBLE ARCHITECTURAL CEILING; EASY TO CLEAN; 100,000 HOUR [L70]; DLC LISTED; 5 YR. WARRANTY; 0-10 DIMMING; FIELD-SELECTABLE LUMEN OUTPUT [HIGH, 4000K]	ILP	VPAN24-33L/44L/55L-U-CCTS	277 V	38 VA	LED	0-10	5,191	4000 K	80+	
A4ME	2'X4' LED FLAT PANEL LUMINAIRE; HIGH TRANSMISSION EXTRUDED LOW GLARE PMMA FROSTED ACRYLIC LENS, ULTRA-THIN <2" H; SCRATCH AND IMPACT RESISTANT; RECESSED INTO ACCESSIBLE ARCHITECTURAL CEILING; EASY TO CLEAN; 100,000 HOUR [L70]; DLC LISTED; 5 YR. WARRANTY; 0-10 DIMMING; FIELD-SELECTABLE LUMEN OUTPUT [HIGH, 4000K],10W LED SELF-DIAGNOSING BATTERY BACKUP	ILP	VPAN24-33L/44L/55L-U-CCTS-EM10/HE/SD	277 V	38 VA	LED	0-10	5,500	4000 K	80+	
B2M	2'X2' LED FLAT PANEL LUMINAIRE; HIGH TRANSMISSION EXTRUDED LOW GLARE PMMA FROSTED ACRYLIC LENS, ULTRA-THIN <2" H; SCRATCH AND IMPACT RESISTANT; RECESSED INTO ACCESSIBLE ARCHITECTURAL CEILING; EASY TO CLEAN; 100,000 HOUR [L70]; DLC LISTED; 5 YR. WARRANTY; 0-10 DIMMING; FIELD-SELECTABLE LUMEN OUTPUT [MEDIUM, 4000K]	ILP	VPAN22-22L/33L/44L-U-CCTS	277 V	30 VA	LED	0-10	4,156	4000 K	80+	
B2ME	2'X2' LED FLAT PANEL LUMINAIRE; HIGH TRANSMISSION EXTRUDED LOW GLARE PMMA FROSTED ACRYLIC LENS, ULTRA-THIN <2" H; SCRATCH AND IMPACT RESISTANT; RECESSED INTO ACCESSIBLE ARCHITECTURAL CEILING; EASY TO CLEAN; 100,000 HOUR [L70]; DLC LISTED; 5 YR. WARRANTY; 0-10 DIMMING; FIELD-SELECTABLE LUMEN OUTPUT [MEDIUM, 4000K]	ILP	VPAN22-22L/33L/44L-U-CCTS	277 V	30 VA	LED	0-10	4,156	4000 K	80+	
L4HPE	2.5"X4' LINEAR DIRECT/INDIRECT PENDANT LED LUMINAIRE; WIDESPREAD OPTICS; FLUSH LENS; FIXTURE LENS SHALL BE CONTINUOUS (NO BREAKS) FIELD VERIFY SUSPENSION HEIGHT WITH ARCHITECT [GENERALLY 18-24"]; 50,000 HOUR (L70); 0-10 DIMMING; 7 YR WARRANTY; INTEGRAL EM BATTERY PACK; FIELD-SELECTABLE LUMEN OUTPUT [80W/MEDIUM, 4000K]; FIELD-SELECTABLE UP/DOWN LIGHT [UP 30% & DOWN 70%]	ALEO LIGHTING	LPA-4UX-50-8-CCT-WH-EM1400+LPA-ACCSY-PK	120 V	50 VA	LED	0-10	6,400	4000 K	80+	
L8MPE	2.5"X8' WIDE LINEAR DIRECT/INDIRECT PENDANT LED LUMINAIRE; WIDESPREAD OPTICS; FLUSH LENS; FIXTURE LENS SHALL BE CONTINUOUS (NO BREAKS) FIELD VERIFY SUSPENSION HEIGHT WITH ARCHITECT [GENERALLY 18-24"]; 50,000 HOUR (L70); 0-10 DIMMING; 7 YR WARRANTY; INTEGRAL EM BATTERY PACK; FIELD-SELECTABLE LUMEN OUTPUT [80W/MEDIUM, 4000K]; FIELD-SELECTABLE UP/DOWN LIGHT [UP 30% & DOWN 70%]	ALEO LIGHTING	LPA-8UX-100-8-CCT-WH-EM1400+LPA-ACCSY-PK	120 V	80 VA	LED	0-10	10,320	4000 K	80+	
S8RDE	8" ROUND SURFACE MOUNTED ROUND LED LUMINAIRE; DURABLE CAST ALUMINUM LOW PROFILE OF <1/2"; LOW GLARE POLYCARBONATE LENS; MOUNTS IN STANDARD 4" DEEP OCTAGONAL JUNCTION BOX; PROVIDE JUNCTION BOX/HOUSING AS REQUIRED; 50,000 HOUR (L70); 5 YR WARRANTY; 0-10 DIMMING; FIELD-SELECTABLE CCT [3000K]; EM BATTERY PACK	PRESCOLITE	LBSES-8RD-CS9-WH-EM	120 V	20 VA	LED		1,750	4000 K	90+	
VL	WALL MOUNTED 18W x 5H x 2.5D LINEAR RECTANGULAR LED VANITY; WHITE ACRYLIC DIFFUSER; SCBA; 60,000 HOUR (L70); 0-10 DIMMING	TRANSGLOBE LIGHTING	LED-22463-SAAVY	120 V	20 VA	LED		1,625	3000 K		
X1	UNIVERSAL EDGE-LIT EXIT SIGN; BRUSHED ALUMINUM HOUSING AND BLACK PLASTIC END-CAPS, WITH HIGH-GRADE ACRYLIC PANEL; GREEN LETTERING; UNIVERSAL FACE, SINGLE, DOUBLE; UNIVERSAL MOUNTING, SURFACE, RECESSED, OR END-MOUNT: FIELD VERIEY FACE COUNTS AND MOUNTING	BEGHELLI	CRV2SAUBA	120 V	2 VA	LED					

					E	QU	IPN	1EN	IT S	SCH	1EC	DUL	.E					
	CONN	ECTION TYPE NOTES:					RE	ESPONSI	BILITY LEG	END:								
	2. FUS 3. BRE 4. MAN 5. MAG	N-FUSED DISCONNECT SWITCH SED DISCONNECT SWITCH EAKER IN ENCLOSURE NUAL STARTER WITH THERMAL OV GNETIC STARTER GNETIC STARTER/NON-FUSED DIS		Г СОМВІМ	IATION		В. С.	FURNISH FURNISH	IED AND II IED UNDE	NSTALLED R ANOTHI	UNDER A	ANOTHER ON BUT IN	DER DIVISION 2 DIVISION. REC ISTALLED AND DER ANOTHER	QÙIRÉD CONNI CONNECTED	ECTION U UNDER DI	NDER DIVISION 2	VISION 26( 26(16)	16)
	7. MAC 8. MAC 9. VAR 10. RE 11. DIF 12. RE 13. TW	GNETIC STARTER/FUSED DISCONI GNETIC STARTER/BREAKER COME RIABLE FREQUENCY DRIVE DUCED VOLTAGE STARTER RECT CONNECTION ICEPTACLE/SPECIAL PURPOSE OU /O-SPEED STARTER. COORDINATI ILID STATE SOFT-STARTER	NECT CON BINATION JTLET/ET(	MBINATIO	N		NO NO SI	OTE 1: PE OTE 2: OV ZED IN AC	'ERCURRE CCORDAN	(A), EQUIF ENT PROT CE WITH I	ECTION D FUSE MFF	EVICE (O R RECOMI	NOT REQUIREI CPD) SHOWN I MENDATION FO ENVIRONMEN	S LOCATED A <sup>T</sup> OR MOTOR NAI	T POWER ME PLATE	PANEL. A	ALL FUSING	JCTOR 3 TO BE
				ELE		CAL EC		ENT					WIRE		ОС	PD	VFD TES)	
				LO	AD				Sc	SIZE							SC/ VF NOTE	
UNIT	#	DESCRIPTION	НР	FLA	MCA	VA	VOLTAGE	PHASE	FULL LOAD AMPS	CONDUITS	SETS	QTY	SIZE	EQ. GROUND	TYPE	AMPS	STARTER/ DISC/ OTHER (SEE NO	REMARKS
AC	1	OUTDOOR UNIT	0.00	0 A	22.7 A	0 VA	240 V	1	18.2 A	3/4"	1	2	10	10	СВ	30 A	2 A	
EF	1	EXHAUST FAN	0.00	0 A	0 A	528 VA	120 V	1	4.4 A	3/4"	1	2	12	12	СВ	20 A		REWORK EXISTING EXHAUST FAN CIRC. TIE INTO LIGHTING WALL MOTION SWITCH

PANEL: A [E]				TYPE:		Type 1		VOLTS:	1	20/240		PHASE:	1		<b>WIRES</b> :3
MOUNTING: SURFACE							LC	OCATION:							MAINS: MLO
BUSSING: ALUMINUM								D FROM:							SUBFEED LUGS
<u> </u>									225 A				-		DOOR-IN-DOOR
								AIVII.	225 A						ISO GROUND
															<del></del>
															200% NEUTRAL
															SPD
						E	BRANCH	BREAKER	 RS						
	44400	7.05	DOLE	WIRE	CIR.					CIR.	WIRE	DOLE	T) (DE	4450	
ITEM EXISTING CIRCUITS	AMPS	TYPE 	POLE 1	SIZE 	NO. 1	A	В	A	В	NO. 2	SIZE 	POLE 1	TYPE 	AMPS 	ITEM  EXISTING CIRCUITS
EXISTING CIRCUITS			1		3					4		1			EXISTING CIRCUITS  EXISTING CIRCUITS
EXISTING CIRCUITS			1		5					6		1			EXISTING CIRCUITS
EXISTING CIRCUITS			1		7					8		1			EXISTING CIRCUITS
EXISTING CIRCUITS			1		9					10		1			EXISTING CIRCUITS
EXISTING CIRCUITS			1		11					12		1			EXISTING CIRCUITS
EXISTING CIRCUITS			1		13					14	<b>-</b>	1			EXISTING CIRCUITS
EXISTING CIRCUITS			1		15					16		1			EXISTING CIRCUITS
EXISTING CIRCUITS			1		17					18		1			EXISTING CIRCUITS
EXISTING CIRCUITS			1		19					20		1		-	EXISTING CIRCUITS
EXISTING CIRCUITS			1		21					22		1			EXISTING CIRCUITS
EXISTING CIRCUITS			1		23					24		1			EXISTING CIRCUITS
EXISTING CIRCUITS			1		25					26		1			EXISTING CIRCUITS
EXISTING CIRCUITS			1		27					28		1			EXISTING CIRCUITS
EXISTING CIRCUITS			1		29					30		1			EXISTING CIRCUITS
EXISTING CIRCUITS			1		31					32		1		1	EXISTING CIRCUITS
EXISTING CIRCUITS			1		33					34		1	-	-	EXISTING CIRCUITS
EXISTING CIRCUITS			1		35					36		1			EXISTING CIRCUITS
EXISTING CIRCUITS			1		37			2179		38	10	2		30 A	*** AC-1
EXISTING CIRCUITS			1		39				2179	40					
EXISTING CIRCUITS			1		41			2160		42	12	1		20 A	*** RECEPT RECEPTION A11
FEED THRU LOAD						4339	2179	TOTAL (	۱/Δ۱						CONNECTED LOAD TOTAL
0 VA						36 A	18 A	AMPS/P							6518 VA
0 VA	_						10 A	_AIVIP3/FI	HASE						0316 VA
										AIC F	RATING				AMPS RMS SYSM.
ES: EXISTING GE PANELBOAF	RD						Ici	RCUIT BR	EAKER T	YPE:					

# LIGHTING CONTROL INTENT NARRATIVE (IECC 2021 COMPLIANT)

THE DRAWINGS SHOW GENERAL ZONING INTENT. THE BIDDING CONTRACTOR ALONG WITH THE LIGHTING CONTROLS MANUFACTURER IS RESPONSIBLE FOR PROVIDING A SYSTEM WITH THE FEATURES NECESSARY AND MUST BE CAPABLE OF MEETING THE INTENT. THE MANUFACTURER'S REPRESENTATIVE FOR DIVISION 26 AND BIDDING CONTROLS SHALL BE ACCOUNTABLE FOR THE COMPREHENSIVE LIGHTING CONTROLS PACKAGE'S FINALIZATION IN ALIGNMENT WITH THE DESIGN INTENT DEPICTED IN THE DRAWINGS AND COMPLYING WITH IECC 2021 REQUIREMENTS. THE LIGHTING REPRESENTATIVE IS REQUIRED TO FURNISH EXHAUSTIVE SHOP DRAWINGS. ELUCIDATING THE LIGHTING CONTROL SYSTEM'S TOPOLOGY AND THE ESSENTIAL CONNECTIONS NECESSARY FOR ITS PROPER FUNCTIONING

**GENERAL PRINCIPLES:**  ALL INDOOR AND OUTDOOR LIGHTING WILL BE CONTROLLED BY A SYSTEM THAT PRIORITIZES ENERGY EFFICIENCY AND OCCUPANT COMFORT, MEETING IECC 2021 REQUIREMENTS. LIGHTING WILL PRIMARILY FOLLOW A MASTER CLOCK SCHEDULE PROVIDED BY THE OWNER, WITH MANUAL OVERRIDE THROUGH TOUCH PANELS FOR FINE-TUNING. 0-10V DIMMING WILL BE AVAILABLE ON ALL APPLICABLE LUMINARIES FOR SMOOTH LIGHT LEVEL OCCUPANCY SENSORS WILL AUTOMATICALLY DIM LIGHTS TO PRESET LEVELS (50% FOR CORRIDORS, STAIRWELLS, VESTIBULES) AFTER PERIODS OF INACTIVITY (15 MINUTES). TYPICAL ROOM CONTROLLER STYLE BASED LIGHTING CONTROLLER (NON-NETWORKED). PROVIDE

REQUIRED RELAYS AND END DEVICES AS NEEDED E.G. OCCUPANCY SENSORS, DAYLIGHT SENSORS,

# SPECIFIC AREAS:

COMPLIANCE:

100% BRIGHTNESS.

CLASSROOMS: ROOM CONTROLLER BASED SYSTEM WITH OCCUPANCY AND DAYLIGHT SENSORS THAT MANAGE CLASSROOM LIGHTING. ENTERING THE SPACE TRIGGERS THE SENSORS, TURNING LIGHTS ON TO 50% BRIGHTNESS. OCCUPANTS CAN SET DESIRED LIGHT LEVELS FROM PRE-PROGRAMMED SCENES THROUGH THE WALL LIGHTS TURN OFF AUTOMATICALLY AFTER VACANCY OR A PRESET TIMEOUT PERIOD. EMERGENCY LUMINARIES OPERATE ON THE SAME CIRCUIT AS NORMAL CLASSROOM LIGHTS. IN CASE OF A POWER FAILURE, DESIGNATED EMERGENCY LUMINAIRE(S)AUTOMATICALLY SWITCH TO

 OCCUPANCY SENSORS TRIGGER CORRIDOR RELAY TO DIM ALL LIGHTS TO 50% AFTER 15 MINUTES OF OCCUPANCY SENSOR PLACEMENT WILL FOLLOW MANUFACTURER RECOMMENDATIONS FOR OPTIMAL DETECTION.

SAME OPERATION AS VESTIBULES, BUT EGRESS LIGHTS REMAIN ON AT 30% AFTER BUILDING CLOSURE. MOTION SENSORS ACTIVATE EGRESS LIGHTS TO 100% FOR 20 MINUTES AFTER DETECTING MOVEMENT, THEN DIM BACK TO 30% ON VACANCY. LIGHTS REMAIN AT 30% UNTIL SCHEDULED BUILDING OPENING.

 LIGHTS AUTOMATICALLY TURN ON TO 100% WHEN USER ENTERS, WITH 50% DIM LEVEL TRIGGERED BY OCCUPANCY SENSORS AFTER 15 MINUTES OF INACTIVITY.

LIGHTS AUTOMATICALLY TURN ON TO 100% WHEN USER ENTERS, BUT EGRESS LIGHTS REMAIN ON AT 30% AFTER BUILDING CLOSURE. MOTION SENSORS ACTIVATE EGRESS LIGHTS TO 100% FOR 20 MINUTES AFTER DETECTING MOVEMENT. THEN DIM BACK TO 30% ON VACANCY. LIGHTS REMAIN AT 30% UNTIL SCHEDULED BUILDING OPENING.

WASHROOMS: OCCUPANCY: LIGHTS AUTOMATICALLY TURN AFTER VACATED.

ROOM CONTROLLER BASED, SIMILAR TO CLASSROOM OR OCCUPANCY: LIGHTS AUTOMATICALLY TURN ON TO DAYLIGHT LEVEL WHEN USER ENTERS, AND LIGHTS WILL AUTOMATICALLY TURN OFF 15 MINUTES TOGGLE CONTROL BETWEEN ON/OFF. 0-10V DIMMING, RAISE AND LOWER.

THIS NARRATIVE OUTLINES A LIGHTING CONTROL SYSTEM THAT COMPLIES WITH THE LATEST IECC 2021 REQUIREMENTS, EMPHASIZING AUTOMATED CONTROLS, DAYLIGHT HARVESTING, AND ENERGY-EFFICIENT DIMMING BASED ON OCCUPANCY AND AMBIENT LIGHT LEVELS. THIS APPROACH HELPS MINIMIZE ENERGY CONSUMPTION WHILE ENSURING ADEQUATE LIGHTING FOR OCCUPANT SAFETY AND COMFORT. EMERGENCY LIGHTING AND IBC/IECC COMPLIANCE IN ADDITION TO THE STANDARD LIGHTING CONTROL SYSTEM,

THE PROJECT WILL INCLUDE AN EMERGENCY LIGHTING SYSTEM DESIGNED TO MEET THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC) AND THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC). THIS SYSTEM PRIORITIZES OCCUPANT SAFETY AND EGRESS DURING POWER OUTAGES. **EMERGENCY LIGHTING FEATURES:** PROJECT UTILIZES INTEGRAL EMERGENCY BATTERY PACKS WITHIN SPECIFIC LIGHT FIXTURES. SEE

PLANS FOR LOCATIONS. PROVIDE UNSWITCHED NORMAL CIRCUIT HOT LEG TO ALL EMERGENCY POWER CONTROL DEVICES FOR PROPER POWER SENSING AUTOMATIC ACTIVATION: UPON DETECTION OF A POWER FAILURE, EMERGENCY LIGHTS WILL AUTOMATICALLY SWITCH ON TO 100% BRIGHTNESS WITHIN THE FACILITY. EXIT PATH ILLUMINATION: EMERGENCY LIGHTING WILL BE STRATEGICALLY PLACED TO EFFECTIVELY TO ILLUMINATE ALL DESIGNATED. EXIT PATHS AND STAIRWELLS, FACILITATING SAFE EVACUATION. COMPLIANCE AND INSPECTION: THE EMERGENCY LIGHTING SYSTEM WILL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH IBC AND IECC REQUIREMENTS, AND WILL BE SUBJECT TO REGULAR INSPECTIONS TO ENSURE PROPER FUNCTIONALITY.

THE SPECIFIED TIME DELAYS AND LIGHT LEVELS CAN BE ADJUSTED TO SUIT THE SPECIFIC NEEDS OF THE BUILDING AND OCCUPANTS. AFTER 2 MONTHS OF OCCUPANCY, LIGHTING PROGRAMMER SHALL RETURN TO MAKE ADJUSTMENTS PER THE OWNERS REQUEST.

- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL FIXTURE LOCATIONS WITHIN A CEILING OR CEILING GRID. FOR AREAS WITHOUT CEILINGS. FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS. COORDINATE WITH PAINTING CONTRACTOR FOR PAINTING OF EXPOSED RACEWAY.
- FIELD VERIFY EXACT FIXTURE LENGTHS FOR CONTINUOUS ILLUMINATION FOR COVES AND LINEAR RUNS. PROVIDE CONTINUOUS ILLUMINATION WITH NO MORE THAN A 1" GAP BETWEEN THE END OF THE EDGE OF THE WALL / CEILING AND THE FIXTURE.

LIGHTING GENERAL SHEET NOTES

- ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR PLACEMENT OF FIXTURES WITHIN MECHANICAL ROOMS.
- ALL ROOM CONTROLLERS AND/OR POWER PACKS SHALL BE INSTALLED IN THE CEILING SPACE DIRECTLY ABOVE THE ENTRY DOOR TO THE SPACE IT IS CONTROLLING.
- ALL UNDERCABINET LIGHTS MUST BE COORDINATED WITH MILLWORK FOR EXACT LENGTHS. ALL
- UNDERCABINET LIGHTS SHALL BE COORDINATED WITH MILLWORK SHOP DRAWINGS. PROVIDE 0-10V DIMMING CONDUCTORS FOR ALL AREAS AND/OR ROOMS WHERE 0-10V DIMMING IS INDICATED
- SUBSCRIPT ADJACENT TO LIGHT FIXTURE INDICATES CONTROLS, PROVIDE LIGHTING CONTROLS WITH THE REQUIRED NUMBER OF RELAY/DIMMERS. PROVIDE ADDITIONAL RELAY/DIMMERS FOR DAYLIGHT ZONES AS

BY THE RELAY PANEL SCHEDULE AND/OR WALL STATION CONTROL SEQUENCE.

# LIGHTING SENSOR GENERAL NOTES

- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE SENSOR MANUFACTURER
- FOR PROPER PLACEMENT AND ADJUSTMENT OF OCCUPANCY SENSORS. EACH ZONE SHALL HAVE COVERAGE BY OCCUPANCY SENSOR SUCH THAT NO BLIND SPOT EXIST.
- UPON COMPLETION OF THE INSTALLATION. THE SYSTEM SHALL BE COMPLETELY COMMISSIONED BY THE MANUFACTURER'S FACTORY AUTHORIZED TECHNICIAN WHO WILL VERIFY ALL ADJUSTMENTS AND SENSOR PLACEMENT TO ENSURE A TROUBLE-FREE INSTALLATION.
- THE LOCATION AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE ROOMS WHICH ARE TO BE PROVIDED WITH SENSORS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY COVER THE RESPECTIVE ROOM.
- PROVIDE DAYLIGHT ZONE CONTROL REQUIREMENTS PER CURRENT IECC REQUIREMENTS. LOCATE DAYLIGHT SENSOR(S) PER MANUFACTURER'S RECOMMENDATION AND WHERE REQUIRED WITHIN THE ROOM FOR
- PROVIDE OCCUPANCY SENSOR WITH AN ADDITIONAL SET OF DRY CONTACTS FOR HVAC CONTROL AT EACH VAV BOX LOCATION. COORDINATE WITH MECHANICAL DRAWINGS AND THE MECHANICAL CONTRACTOR FOR EXACT LOCATIONS.

# SECURITY GENERAL NOTES

- PRIOR TO STARTING ANY WORK THE DIV.28 VIDEO SURVEILLANCE CONTRACTOR SHALL COORDINATE A MEETING WITH THE OWNER AND THE DIV.26 ELECTRICAL CONTRACTOR TO REVIEW THE SURVEILLANCE CAMERA LOCATIONS AND ROUGH-IN. THE VIDEO SURVEILLANCE CONTRACTOR SHALL PROVIDE ALL OF THE CORRECT HARDWARE AND MOUNTING EQUIPMENT FOR THE IP SURVEILLANCE CAMERAS AND VIDEO
- A. EACH SURVEILLANCE CAMERA LOCATION, HEIGHT, ORIENTATION, AND VIEW. B. VERIFY WHICH EF/ER/TR ROOM AND COMMUNICATION EQUIPMENT RACK THE VIDEO SURVEILLANCE EQUIPMENT WILL INSTALL INTO.
- PRIOR TO STARTING ANY WORK THE DIV.28 ACCESS CONTROL CONTRACTOR SHALL COORDINATE A MEETING WITH THE OWNER, THE DIV.8 DOOR HARDWARE CONTRACTOR, AND THE DIV.26 ELECTRICAL CONTRACTOR TO REVIEW THE DOOR HARDWARE SPECIFICATIONS AND DOOR ROUGH-IN. A. VERIFY WHAT ELECTRIFIED DOOR HARDWARE IS GOING TO GET INSTALLED ONTO EACH DOOR.
- DISCUSS HOW EACH DOOR WILL NEED TO BE PROGRAMMED TO OPERATE, COORDINATE FAIL-SAFE OR FAIL-SECURE OPERATION, AND FIRE ALARM INTERFACE. D. VERIFY WHICH AREA IN THE EF/ER/TR ROOM IS TO BE UTILIZED TO INSTALL THE ACCESS CONTROL HEAD-
- E. CONFIRM WHICH CURCUIT THE HEAD-END CONTROL PANELS AND POWER SUPPLIES SHOULD BE CURCUITED TO (EMERGENCY POWER OR A STANDARD CURCUIT).
- WORKING SYSTEM.
- SECURITY INTEGRATOR SHALL CAREFULLY REVIEW THE REFLECTED CEILING PLANS AND ARCHITECTURAL ELEVATIONS FOR COMPONENT INSTALLATION.
- DISCREPANCIES TO TEAM.
- STILL REMAINS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY DRAWING QUANTITIES. IF A DISCREPANCY ARISES BETWEEN THE SCHEDULE COUNTS AND THE DRAWING COUNTS, THE HIGHEST QUANTITY SHALL BE
- OR INPUT/OUTPUT MODULES REQUIRED TO SUPPORT DOOR TYPE INDICATED FOR COMPLETE AND
- ALL FINAL CAMERA VIEWS SHALL BE APPROVED BY THE OWNER PRIOR TO PROJECT COMPLETION.
- 10. REFER TO SPECIFICATIONS FOR INTEGRATION BETWEEN VIDEO MANAGEMENT, ACCESS CONTROL, INTRUSION
- 11. PROVIDE INTERACTIVE MAP ON VMS WITH CAMERA AND ACCESS CONTROL DEVICES.
- 3. INSTALL AND PROGRAM THE ACCESS CONTROL AND THE IP VIDEO SURVEILLANCE SYSTEMS TO THE

- EQUIPMENT. PRIOR TO STARTING ANY WORK CONTRACTOR SHALL COORDINATE A MEETING WITH THE OWNER TO REVIEW AND VERIFY:
- B. THE POWER REQUIREMENTS FOR ALL OF THE ELECTRIFIED HARDWARE.
- END CONTROL PANEL(S) AND THE ELECTRIFIED DOOR HARDWARE POWER SUPPLIES.
- PROVIDE ALL SPECIFIED AND NON-SPECIFIED COMPONENTS IN ORDER TO PROVIDE A COMPLETE AND
- SECURITY INTEGRATOR SHALL CAREFULLY REVIEW DOOR HARDWARE SUBMITTAL AND SUMMARIZE
- EQUIPMENT COUNTS ARE PROVIDED FOR INFORMATION ONLY AT A CONVENIENCE TO THE CONTRACTOR. IT
- ACCESS CONTROL SYSTEM SHALL INCLUDE ANY RELAYS, EXTERNAL POWER SUPPLIES, AUXILIARY DEVICES
- FUNCTIONING CARD READER AND DOOR CONTROL.
- . ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
- DETECTION, FIRE ALARM SYSTEMS, ETC.
- 12. COORDINATE WITH ELECTRICAL CONTRACTOR AND OWNERS AND REVIEW WHAT ELECTRICAL CIRCUITS THE ACTIVE ACCESS CONTROL & VIDEO SURVEILLANCE EQUIPMENT WILL NEED TO BE CONNECTED TO. (I.E. EMERGENCY BACK-UP POWER CIRCUITS, OR STANDARD/DIRTY POWER CIRCUITS).
- MANUFACTURER'S INSTRUCTIONS, SPECIFICATIONS, INDUSTRIES STANDARDS, AND TO THE OWNER'S
- 14. CONTRACTOR(S) SHALL PROMPTLY NOTIFY ENGINEER PRIOR TO INSTALLATION OF WORK IF ANY OF THE SECURITY DEVICE LOCATIONS THAT ARE SHOWN IN THE SECURITY DRAWINGS ARE OBSTRUCTED.

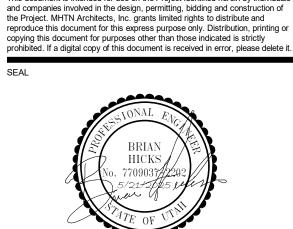
- 1. PROGRAM SYSTEM TO MEET THE REQUIREMENTS OF IECC 2018 OR CURRENT ENERGY CODE. 2. CONFIRM SWITCHING AND PROGRAMMING SCHEME WITH OWNER PRIOR TO PROGRAMMING.
- 3. PROGRAM SYSTEM TO INCORPORATE AUTO DAYLIGHT SAVINGS ADJUSTMENTS, ASTRONOMICAL CLOCK WITH

**GENERAL NOTES** 

- OFFSETS, HOLIDAY DATES, AND NETWORK OVERRIDE. 4. REFER TO WALLSTATION DIAGRAMS FOR FACTORY ENGRAVED LABELING FOR ALL INDIVIDUAL PUSH-
- BUTTONS. DEVICE AND COVERPLATE COLORS SELECTED BY ARCHITECT. 5. SUBMIT ALL WALLSTATION LAYOUTS, ENGRAVING AND CONTROL SEQUENCES DURING THE SHOP DRAWINGS
- REVIEW PROCESS. 6. PROVIDE RELAY BARRIER FOR VOLTAGE AND POWER SOURCE SEPARATION (EMERGENCY AND NORMAL
- CIRCUITS, VOLTAGE DIFFERENCES).

PROGRAM ACCORDINGLY AND PER OWNERS REQUIREMENTS.

7. SYSTEM MUST INTERFACE WITH NEW OR EXISTING ENERGY MANAGEMENT SYSTEM/BMS. PROVIDE SYSTEM CONSISTING WITH MONITOR(S), COMMUNICATIONS EQUIPMENT, A CONTROLLER(S), TIMER(S), OR OTHER DEVICE(S) THAT MONITOR AND/OR CONTROL AN ELECTRICAL LOAD OR POWER PRODUCTION OR STORAGE SOURCE. COORDINATE EXACT TIE-IN POINTS AND COMMUNICATION PROTOCOL/MODULES REQUIRED.



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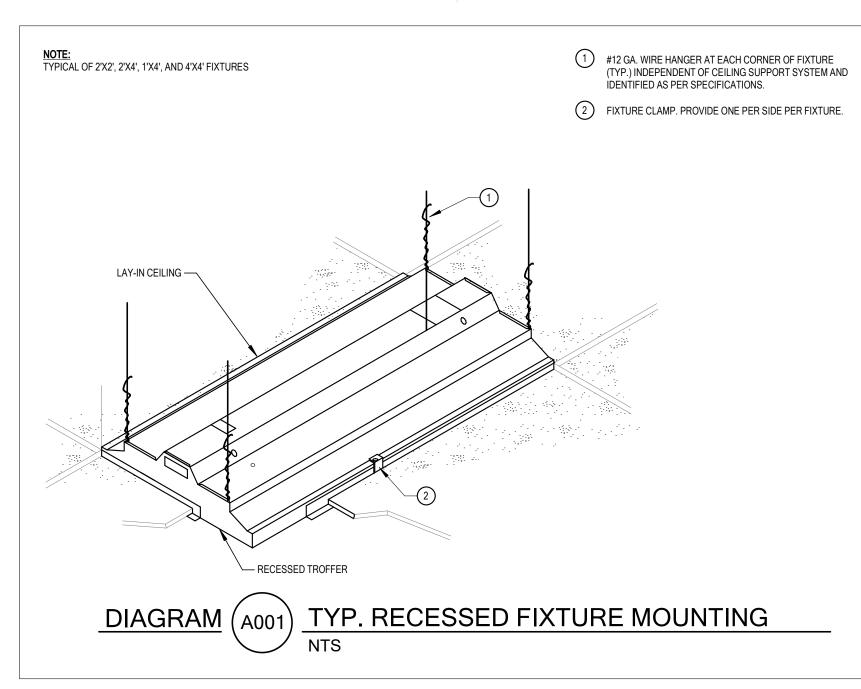
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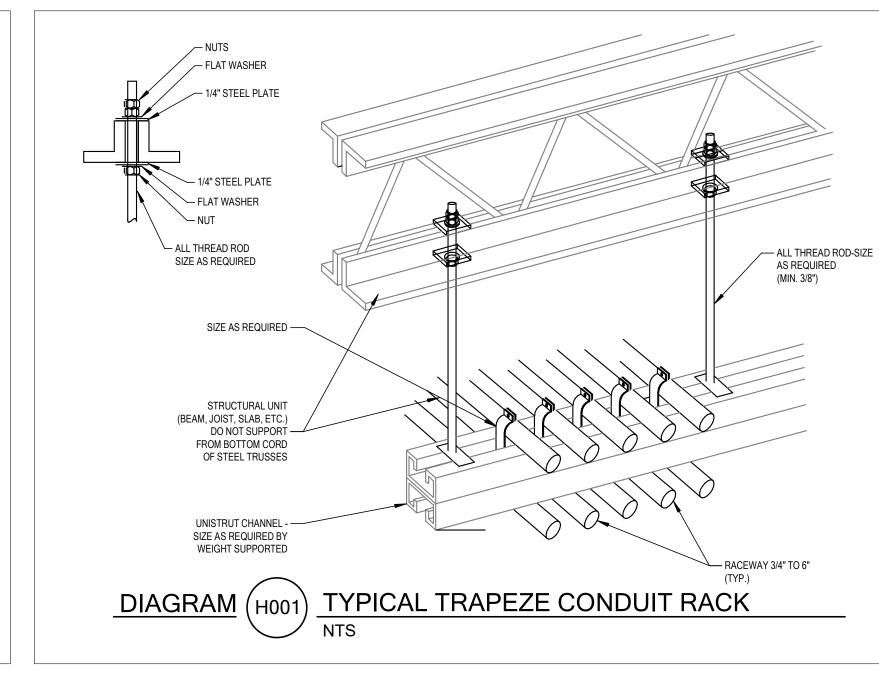
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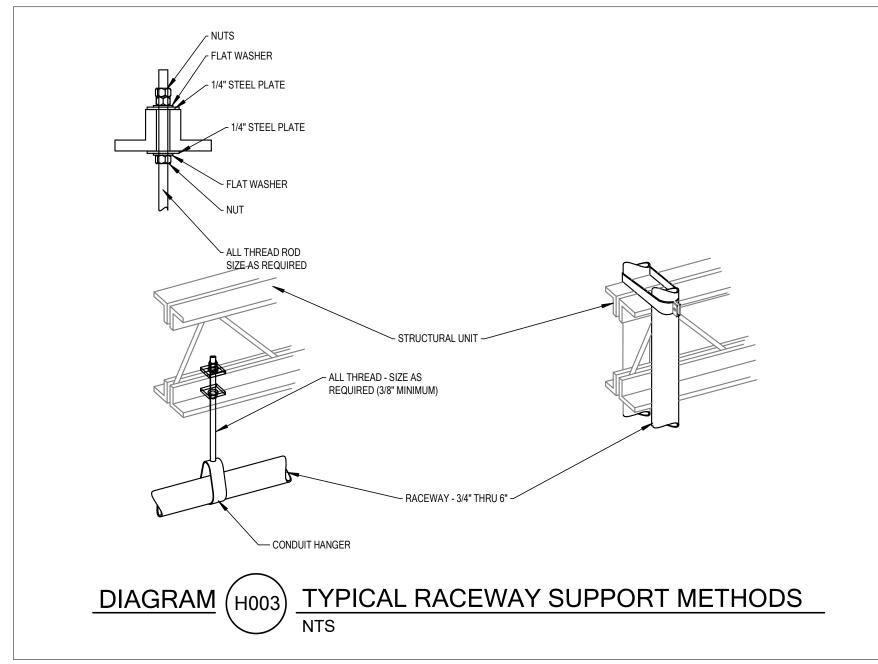
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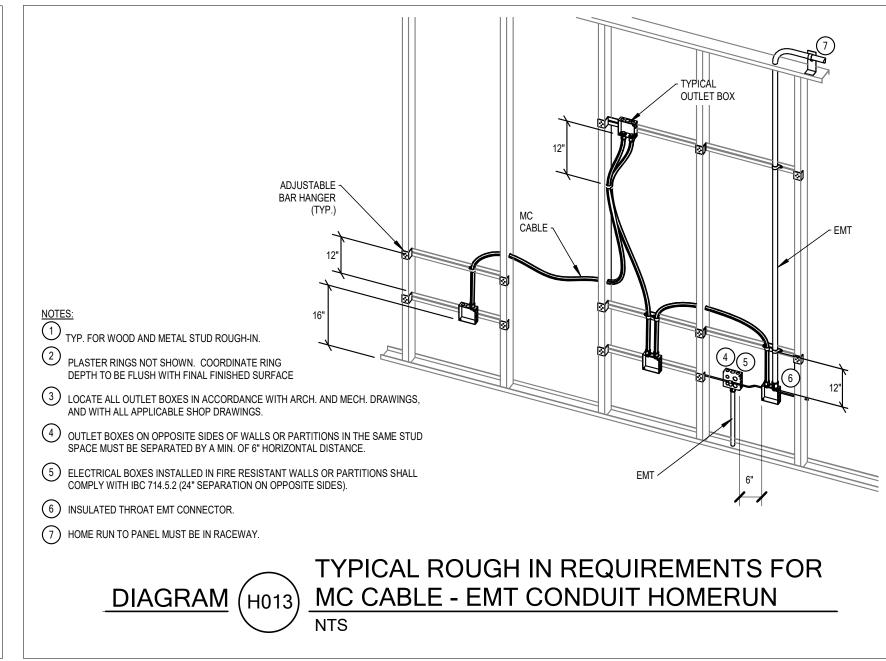
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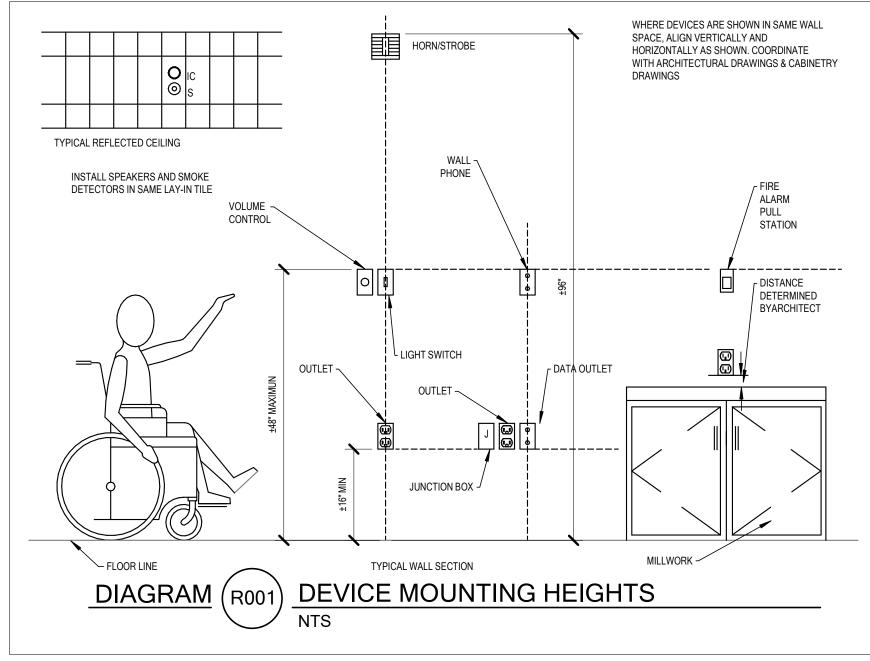
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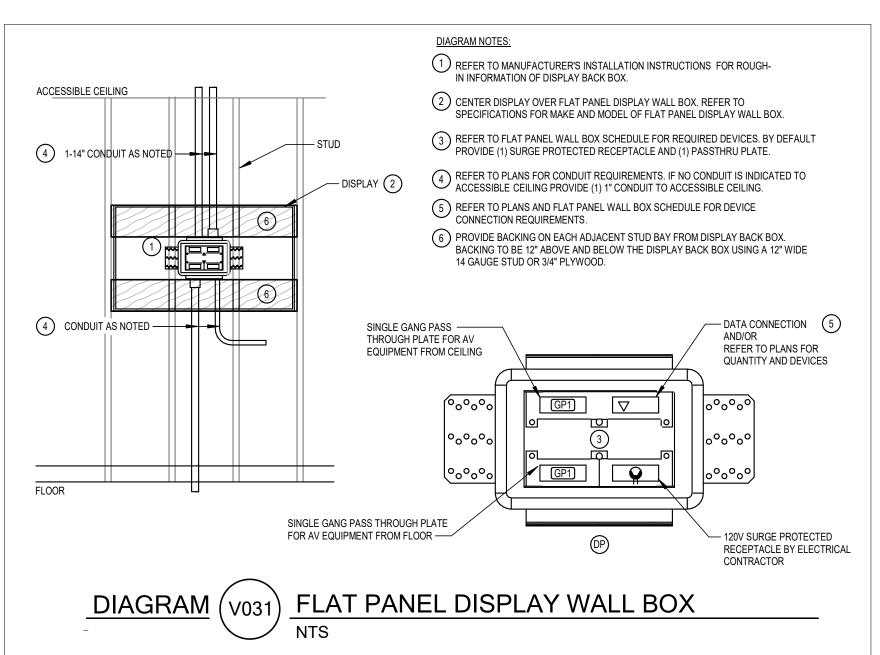


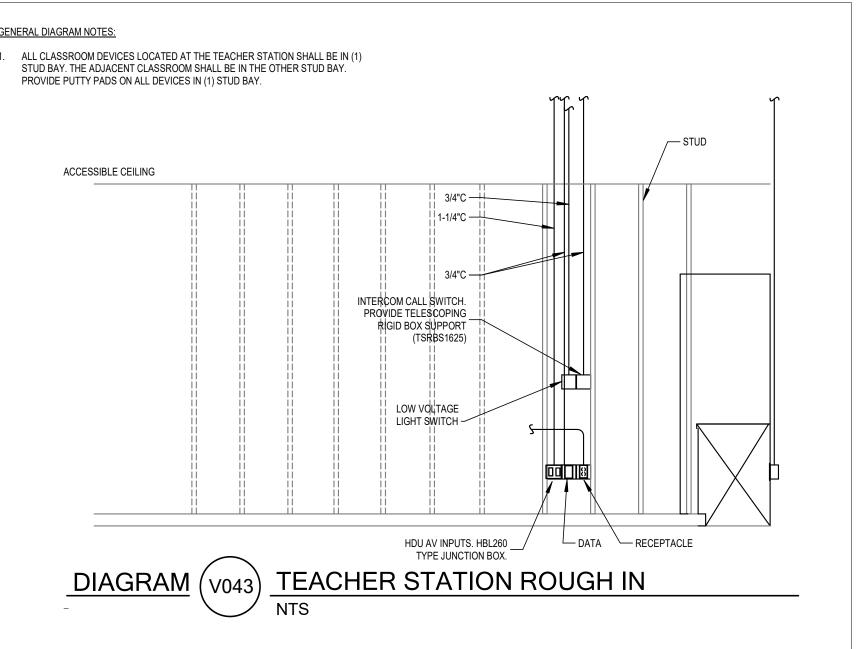


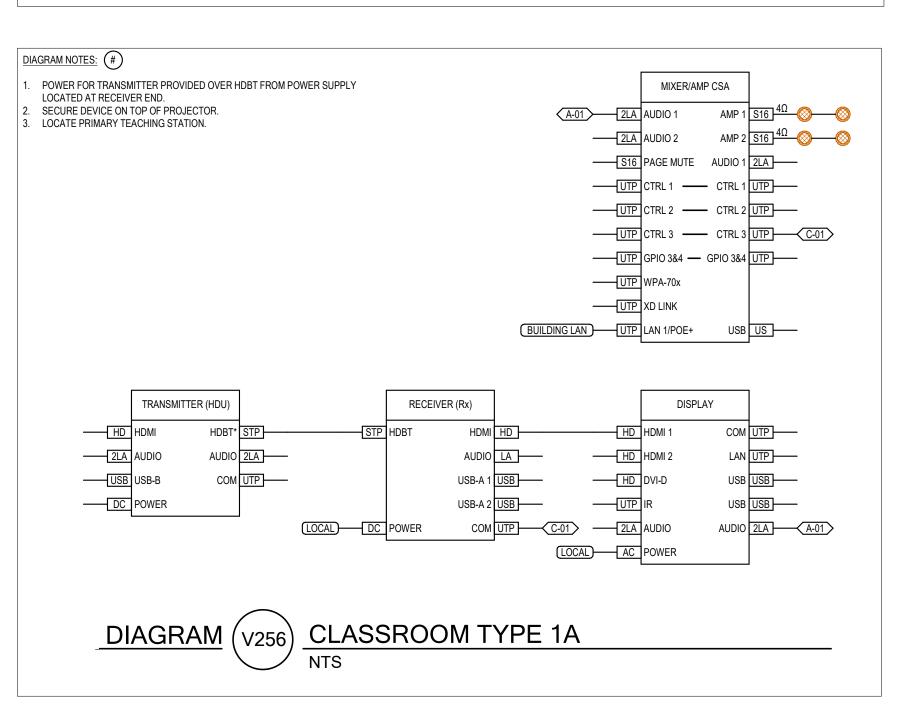














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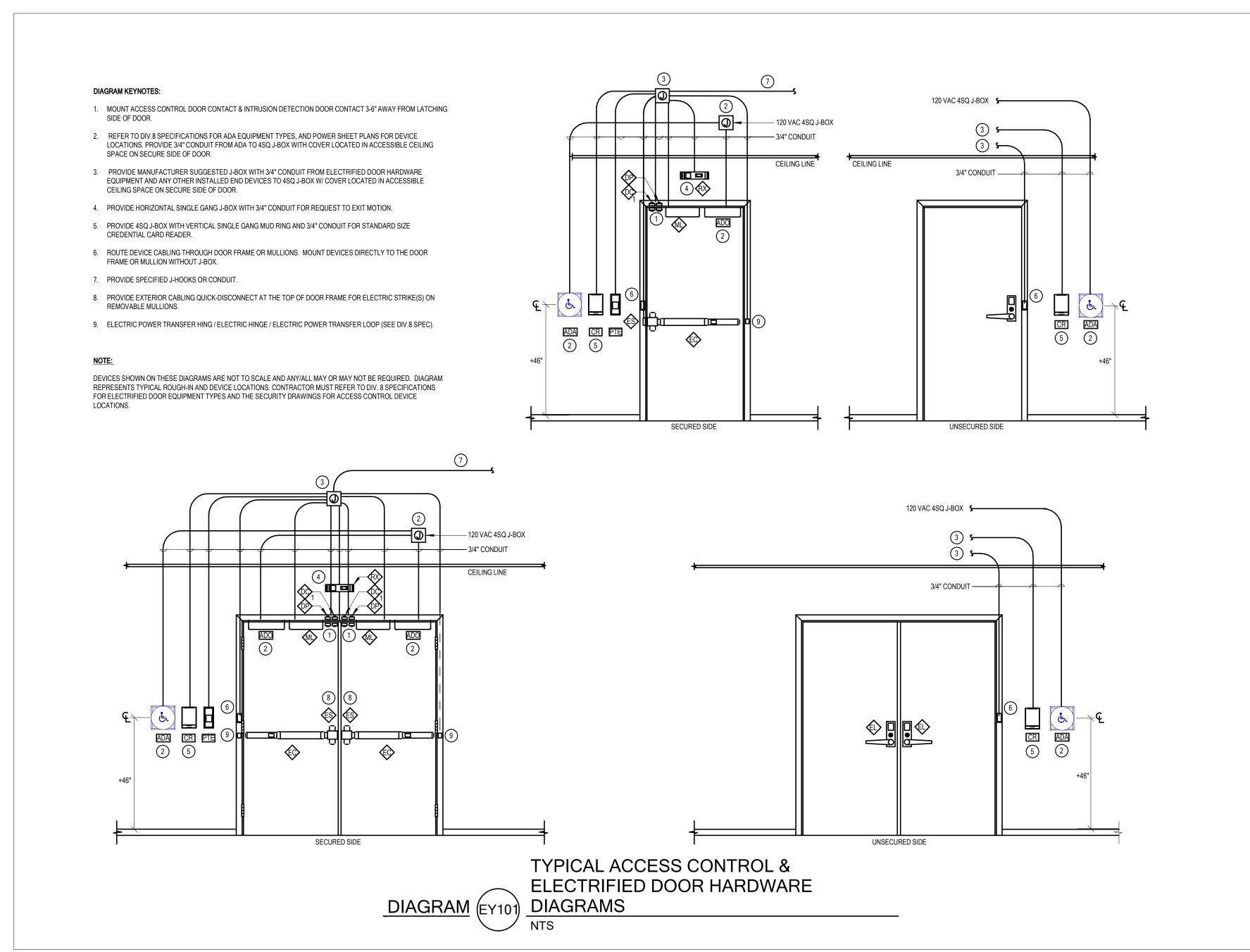
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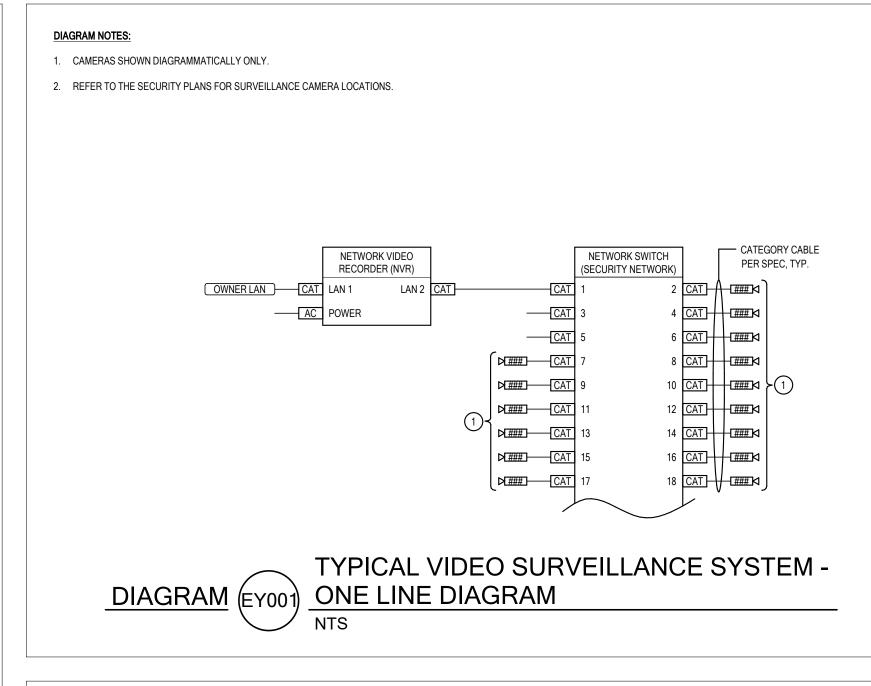
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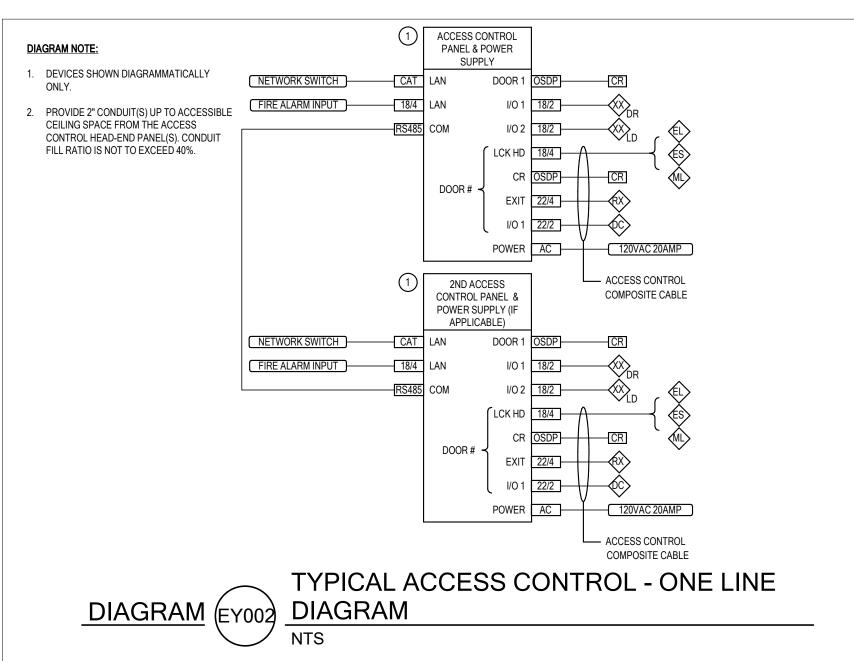


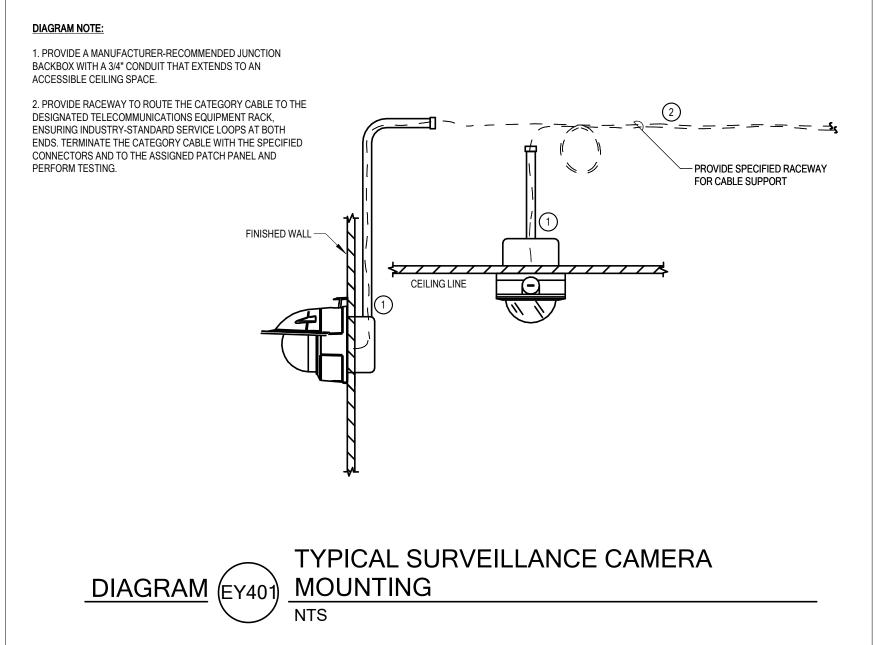
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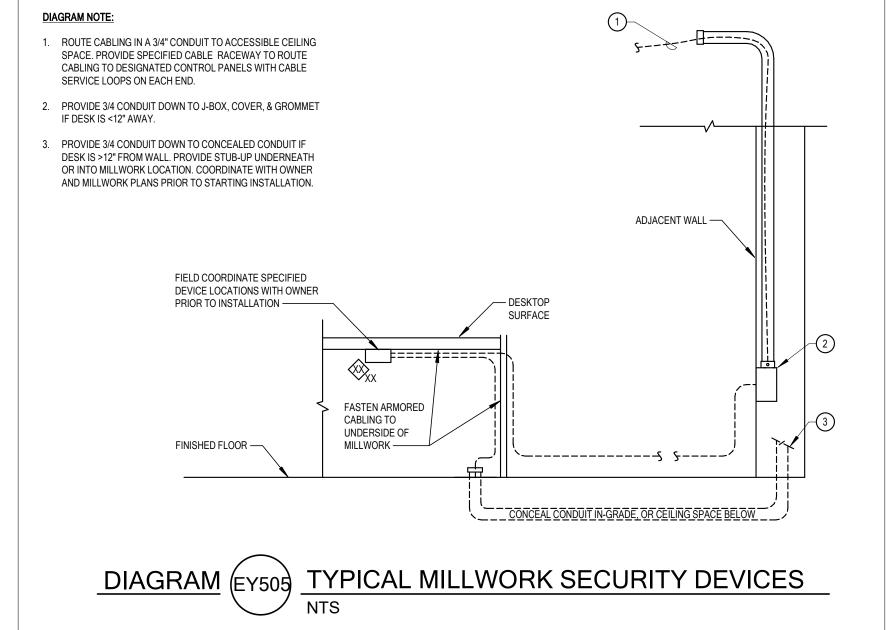
ELECTRICAL DIAGRAMS













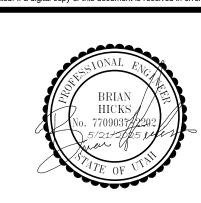
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MEMORIAI CATHOLIC, RE

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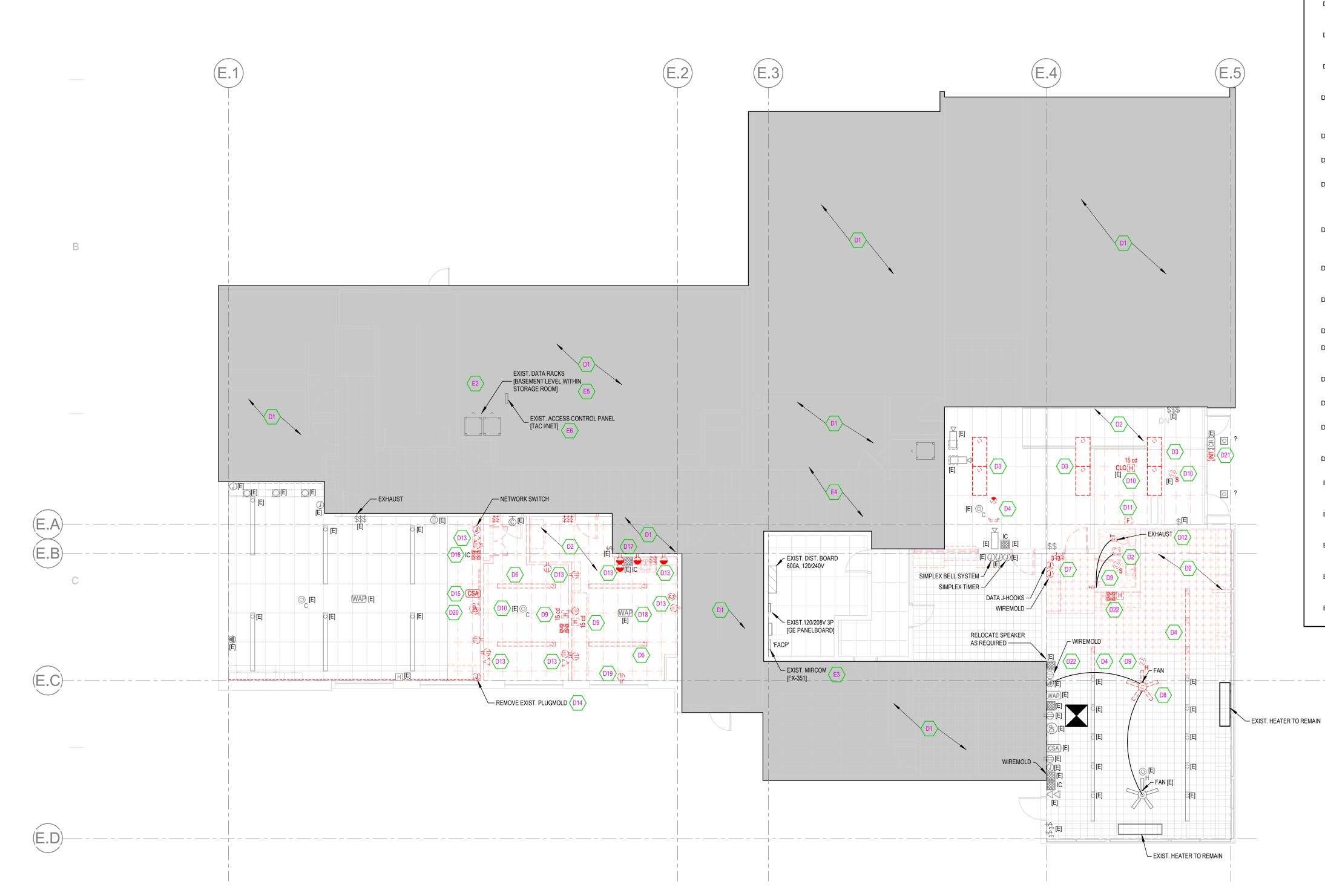
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MAY 21, 2025
SHEET NAME

SECURITY DIAGRAMS





# SHEET KEYNOTES

- D1 NO ANTICIPATED CONSTRUCTION IN AREA, UNLESS OTHERWISE NOTED. PROTECT EXISTING ELECTRICAL APPARATUSES AND ELECTRIFIED EQUIPMENT FOR EXISTING FACILITIES AS REQUIRED. RELOCATE, REWIRE, AND/OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON
- EXISTING AREAS TO BE DEMOLISHED AND REMODELED PER THE ARCHITECTURAL DRAWINGS. REMOVE ALL EXISTING LIGHT FIXTURES AND ELECTRICAL DEVICES AND APPARATUSES REQUIRED FOR DEMOLITION. REMOVE ALL CONDUIT, BOXES AND WIRE THAT ARE NOT BEING REUSED BACK TO SOURCE. KEEP EXISTING ELECTRICAL DEVICES, WIRE, CIRCUIT INTEGRITY, CONDUIT, ETC THAT ARE TO BE REUSED. RE-LOCATE OR EXTEND BOX TO NEW SURFACE AND RE-INSTALL EXISTING AND/OR NEW DEVICES AS NOTED. SEE ENLARGED PLANS FOR ELECTRICAL DEMO AND NEW ELECTRICAL LAYOUT.
- REMOVE EXISTING LIGHT FIXTURES AS SHOWN. MAINTAIN EXISTING LIGHTING CIRCUIT AND CONTROL INTEGRITY FOR USE WITH NEW LIGHT FIXTURES. LABEL EXISTING LIGHT FIXTURES AND APPARATUS APPROPRIATELY, AND RETURN TO OWNER, OR PROPERLY DISPOSE OF FIXTURES THAT THE OWNER CHOOSES NOT TO KEEP.
- REMOVE REQUIRED SECTION EXISTING PENDANT MOUNTED LIGHT FIXTURES AS SHOWN. MAINTAIN EXISTING LIGHTING CIRCUIT AND CONTROL AND REWORK AS NECESSARY TO MAINTAIN THE REMAINING LIGHT FIXTURES WITHIN THE CLASSROOM.
- REMOVE EXISTING LIGHT FIXTURES AND CONTROL DEVICES THROUGHOUT REMODEL SPACE/AREA. MAINTAIN EXISTING LIGHTING CIRCUIT INTEGRITY FOR USE WITH NEW LIGHT FIXTURES AND NEW CONTROLS. REMOVE ALL PREVIOUS CONTROL LOCATIONS AND REWORK NEW SWITCH LEGS AND CONTROLS AS SHOWN ON NEW LIGHTING PLAN LABEL EXISTING LIGHT FIXTURES AND APPARATUS APPROPRIATELY AND RETURN TO OWNER, OR PROPERLY DISPOSE OF FIXTURES THAT THE OWNER CHOOSES NOT TO KEEP.DEMOLITION
- EXISTING CLASSROOM LIGHTING CONTROL SWITCHES. REMOVE AS REQUIRED FOR DEMOLITION. RELOCATE EXISTING LIGHT SWITCHES IN NEW WALL AS SHOWN ON THE NEW PLANS. EXTEND AND REWORK EXISTING SWITCHLEGS TO NEW LOCATIONS AS REQUIRED.
- REMOVE EXISTING CEILING FAN AS REQUIRED FOR DEMOLITION/REMODEL. MAINTAIN FAN CONTROLS AND EXTEND AND REWORK SWITCHLEG TO REMAINING FAN. ENSURE REMAINING CEILING FAN OPERATES
- DISCONNECT AND REMOVE EXISTING FIRE ALARM DEVICE COMPLETELY. REWORK AND MAINTAIN FIRE ALARM CIRCUITS AS REQUIRED. LABEL APPROPRIATELY AND RETURN TO OWNER. SEE NEW ELECTRICAL PLAN FOR NEW REQUIREMENTS
- D10 EXISTING CEILING-MOUNTED FIRE ALARM TO BE REMOVED FOR REMOVAL OF EXISTING CEILING SYSTEM. TEMPORARILY STORE AND PROTECT DURING CONSTRUCTION. MAINTAIN CIRCUIT INTEGRITY AND RE-INSTAL FIRE ALARM DEVICE IN NEW ACT CEILING IN SIMILAR LOCATION OR AS SHOWN ON PLANS. EXTEND WIRING/BOX AS REQUIRED. SEE NEW ELECTRICAL PLAN FOR NEW REQUIREMENTS.
- D11 REMOVE AND RELOCATE EXISTING PULL STATION INTO NEW RECEPTION AREA. REWORK AND EXTEND FIRE ALARM CABLING AS REQUIRED. SEE NEW ELECTRICAL PLAN FOR NEW LOCATION. DEMOLITION
- D12 DISCONNECT EXISTING EXHAUST FAN POWER AND CONTROLS. MAINTAIN EXISTING CIRCUIT FOR USE WITH RESTROOM EXHAUST FAN AND LIGHTING CIRCUIT. SEE NEW PLANS FOR NEW REQUIREMENTS. EXISTING RECEPTACLE AND/OR DATA DEVICE LOCATION TO BE REMOVED. VERIFY EXISTING CIRCUITING CONDITIONS AND MAINTAIN CIRCUIT INTEGRITY OF ANY ADDITIONAL DEVICES NOT SHOWN BUT WIRED TO THE EXISTING CIRCUIT. EXISTING CIRCUIT MAY BE RE-USED FOR NEW AND EXISTING DEVICES IN THE
- D14 EXISTING SURFACE RACEWAY/PLUGMOLD. VERIFY EXISTING CIRCUITING CONDITIONS AND MAINTAIN CIRCUIT INTEGRITY OF ANY ADDITIONAL DEVICES NOT SHOWN BUT WIRED TO THE EXISTING CIRCUIT. EXISTING CIRCUIT MAY BE RE-USED FOR NEW AND EXISTING DEVICES IN THE REMODEL AREA. IF CIRCUIT(S) ARE NOT

REUSED REMOVE CIRCUITRY BACK TO PANELBOARD COMPLETELY AND MARK BREAKER AS SPARE.

REMODEL AREA. IF CIRCUIT(S) ARE NOT REUSED REMOVE CIRCUITRY BACK TO PANELBOARD COMPLETELY

- D15 EXISTING CLASSROOM AUDIO SYSTEM [AUDIO ENHANCEMENT]. REMOVE AND RELOCATE TO NEW CLASSROOM WALL. REWORK AND EXTEND CATEGORY CABLING AS REQUIRED. SEE NEW ELECTRICAL PLAN FOR NEW LOCATION. DEMOLITION
- EXISTING SCHOOL INTERCOM SPEAKER/STATION [WAHSEGA]. REMOVE AND RELOCATE TO NEW CLASSROOM WALL. REWORK AND EXTEND EXISTING NETWORK AND AUDIO CABLING AS REQUIRED. SEE NEW ELECTRICAL PLAN FOR NEW LOCATION. DEMOLITION
- D17 MAINTAIN AND PROTECT EXISTING INTERCOM SPEAKER/STATION.

AND MARK BREAKER AS SPARE.

- D18 EXISTING CEILING-MOUNTED WIRELESS ACCESS POINT TO BE REMOVED FOR REMOVAL OF EXISTING CEILING SYSTEM, TEMPORARILY STORE AND PROTECT DURING CONSTRUCTION, MAINTAIN CIRCUIT INTEGRITY AND REINSTALL IN NEW ACT CEILING IN SIMILAR LOCATION. EXTEND WIRING/BOX AS REQUIRED.
- D19 EXISTING RECEPTACLE LOCATION. IF REQUIRED, REMOVE DEVICE, RE-WORK, EXTEND TO NEW SURFACE, AND INSTALL NEW DEVICE AND COVER PLATE
- EXISTING CLASSROOM AV SYSTEM. COORDINATE TEMPORARILY REMOVAL OF SYSTEM DISPLAY AND ASSOCIATED CABLING. SEE NEW ELECTRICAL PLAN FOR NEW REQUIREMENTS.
- D21 UNINSTALL THE EXISTING AIPHONE IX-DVM IP TWO-WAY AUDIO VIDEO INTERCOM DOOR STATION FROM DOOR REQUIRED. SEE NEW ELECTRICAL PLAN FOR REQUIREMENTS.
- D22 REMOVE AND RELOCATE EXISTING CLASSROOM SPEAKER TO NEW WALL. EXTEND EXISTING SPEAKER CABLING AS REQUIRED.
- THE REMODELED AREAS. PROVIDE A TURN-KEY SOLUTION AND BUILD-OUT FOR ALL IMPACTED SYSTEMS I.E. NETWORK, FIRE ALARM, AND INTERCOM.

BIDDING DIVISION 26,27, AND 28 CONTRACTOR(S) RESPONSIBLE FOR EXPANDING EXISTING SYSTEMS FOR

- EXISTING MIRCOM FX-351 MAIN FIRE ALARM PANEL. EXTEND EXISTING FIRE ALARM INITIATION/NOTIFICATION CIRCUITS TO ACCOMMODATE NEW FIRE ALARM DEVICES SHOWN AND AS REQUIRED. MATCH SYSTEM WIRING SEE DEMO AND NEW ELECTRICAL PLAN FOR REQUIREMENTS.
- CONTRACTOR IS TO PROJECT IN PLACE ALL MECHANICAL, PLUMBING, AND ELECTRICAL ABOVE CEILINGS. ROUTE NEW ELECTRICAL AND LOW VOLTAGE CIRCUIT THROUGH EXISTING CEILINGS AS REQUIRED. FINAL PATHWAY AND ROUTE COORDINATED BY EC. SUPPORT NEW CONDUITS PER SPECIFICATIONS.
- EXISTING NETWORK RACK. REMOVE ANY DEMOLISHED NETWORK CIRCUITS BACK TO SOURCE. WHERE HOWN ON PLANS, ROUTE NEW DATA CABLES TO THE NEAREST TELECOM ROOM, PROVIDE NEW PATCH PANEL AND TERMINATE NEW CABLES AS REQUIRED. SEE NEW ELECTRICAL PLAN FOR NEW REQUIREMENTS
- EXISTING ACCESS CONTROL HEAD-END PANEL. PROVIDE NEW CARD READERS AND ACCESS CONTROL CIRCUITS AS SHOWN. ADD ADDITIONAL CONTROLLERS AS REQUIRED FOR NEW CARD READERS. SEE NEW

# **GENERAL NOTES**

- DIVISION 26 SHALL CONFIRM EXACT LOCATION OF EXISTING AND NEW EQUIPMENT WITH OWNERS. FIXTURE LOCATIONS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWINGS. EXISTING ELECTRICAL FIXTURES, DEVICES, EQUIPMENT, CIRCUITING AND/OR CIRCUITING AND/OR CONDUITS ARE NOT SPECIFIED UNLESS NOTED ON DRAWINGS. FINAL ROUTING OF THE CONDUITS, CIRCUITING AND CABLING SHALL BE DETERMINED BY THE CONTRACTOR AND CLOSELY COORDINATED WITH OWNER. ALL EXISTING CONDITIONS MUST BE VERIFIED
- REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
- DURING DEMOLITION AND NEW CONSTRUCTION. THE CONTINUATION OF BUILDING SYSTEMS MAY BE NECESSARY, TRACE AND IDENTIFY EXISTING ELECTRICAL SYSTEM (POWER, LIGHTING, FIRE ALARM AND SECURITY) WIRING IN AREAS PRIOR TO DEMOLITION. ELECTRICAL CONTRACTOR SHALL DISCONNECT ALL NECESSARY EQUIPMENT TO MAKE IT SAFE FOR DEMOLITION. WHERE LIVE CIRCUITS OR FEEDERS PASS THROUGH A REMODEL AREA, CONTRACTOR SHALL MAINTAIN ELECTRIC CONTINUITY TO AND PROTECT BRANCH CIRCUITS AND/OR FEEDERS PASSING THROUGH. WHERE FEEDERS AND/OR BRANCH CIRCUITS FEED BOTH LOADS IN A REMODELED AREA AND OUTSIDE OF A REMODELED AREA, CONTRACTOR SHALL DISCONNECT AND REMOVE PORTIONS OF THE ELECTRICAL BRANCH CIRCUITS AND/OR FEEDERS WITHIN THE REMODELED AREA AND REWORK BRANCH CIRCUITS AND/OR FEEDERS TO MAINTAIN ELECTRICAL CONTINUITY TO LOADS OUTSIDE OF THE REMODELED AREA.
- DEVICES AND EQUIPMENT TO BE DEMOLISHED SHALL BE REMOVED, INCLUDING ALL RELATED CONDUCTORS, RACEWAY, JUNCTION AND SPLICE BOXES UP TO THE PANELBOARD/SWITCHBOARD. ALL CONDUITS AND BOXES THAT ARE SURFACE MOUNTED AND NO LONGER REQUIRE ACTIVE CIRCUITS SHALL BE COMPLETELY REMOVED. DEVICES TO BE REMOVED ON DRYWALL OR PLASTER TYPE WALLS THAT ARE TO REMAIN SHALL HAVE THE WALL SURFACE PATCHED TO MATCH THE EXISTING FINISH. THE CONTRACTOR SHALL IDENTIFY ALL DEMOLISHED AND ABANDONED BRANCH CIRCUITS. THESE SHALL BE NOTED AS SPARE ON PANELBOARD SCHEDULES. THIS INCLUDES IDENTIFYING EXISTING ABANDONED AND SPARE CIRCUITS THAT ARE CURRENTLY IDENTIFIED AS USED. THE CONTRACTOR SHALL FURNISH NEW TYPED DIRECTORIES FOR ALL PANELBOARDS.
- COORDINATE ALL NEW ELECTRICAL EQUIPMENT REQUIREMENTS AND MAKE CONNECTION TO EXISTING SYSTEMS. THIS INCLUDES LIGHTING, POWER, SIGNAL, RACEWAY AND OTHER SYSTEMS INCLUDED UNDER

THE OWNER HAS THE RIGHT TO RETAIN ALL SALVAGEABLE MATERIAL. ANY MATERIAL THE OWNER CHOOSES

FULLY COORDINATE MECHANICAL EQUIPMENT ELECTRICAL CONNECTION REMOVAL AND RELOCATION WITH THE MECHANICAL CONTRACTOR.

NOT TO ACCEPT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.

- CONTRACTOR TO VERIFY THAT ALL EXISTING EQUIPMENT THAT IS TO REMAIN, BE REMOVED AND RE-INSTALLED ARE IN WORKING CONDITIONS. CONTRACTOR IS TO PROVIDE OWNER WRITTEN DOCUMENTATION OF ANY ITEMS NOT IN WORKING CONDITION PRIOR TO COMMENCING WORK IN AN AREA.
- CONTRACTOR IS TO PROTECT IN PLACE ALL MECHANICAL, PLUMBING, ELECTRICAL ABOVE CEILINGS. THIS MAY INCLUDE BUT NOT LIMITED TO: NETWORK CABLING, COAX CABLING, CONDUITS, PIPING, DUCTWORK, ETC. PROVIDE ADDITIONAL CABLING SUPPORTS AS REQUIRED FOR ANY UNSUPPORTED CABLING, RACEWAY, ETC. WHERE DEVICES OR EQUIPMENT IS TO BE RELOCATED. CONTRACTOR SHALL EXTEND EXISTING CIRCUITING TO NEW LOCATION. ENSURE CIRCUIT CONTINUITY FOR OTHER DEVICES OR EQUIPMENT ON THE SAME BRANCH
- ANY FIRE ALARM DEVICE(S) REMOVED DURING DEMOLITION ARE REQUIRED TO BE RELOCATED IN THE LOCATION NECESSARY TO PROVIDE COVERAGE PER NFPA 72, AND CIRCUITED SAME AS BEFORE. FIRE ALARM DEVICE(S) ARE NOT ALLOWED TO BE LOCATED CENTER OF ANY ROOM OR SPACE. IF MORE FIRE ALARM DEVICES ARE REQUIRED CONTRACTOR SHALL PROVIDE THEM COMPLETELY. REFER TO SHEET E401 FOR MORE
- SEE NEW ELECTRICAL SHEETS FOR NEW FIRE ALARM INFORMATION. REMOVE EXISTING FIRE ALARM DEVICE (S) AS NECESSARY FOR REMOVAL OF CEILING SYSTEM. RE-INSTALL ONCE NEW CEILING IS INSTALLED.
- 3. REMOVE VOICE/DATA CABLING BACK TO DATA ROOM UNLESS NOTED OTHERWISE. 4. PROVIDE BLANK COVERPLATE ON ALL EXISTING BOXES LOCATED IN MASONRY THAT ARE NOT BEING RE-USED.
- PROVIDE BLANK COVERPLATE ON ALL UNUSED BOXES. 5. COORDINATE THE DEMOLITION, PATCH, AND REPAIR OF CEILING FOR ALL LIGHTING AND ELECTRICAL
- APPARATUSES IN THIS AREA. DISCONNECT AND RE-CONNECT AS REQUIRED TO MAINTAIN ALL SYSTEMS. 6. KEEP CLASSROOM SYSTEMS TOGETHER, LOUDSPEAKERS, AMPLIFIERS, IR SENSORS, PROJECTORS, AND CABLING ARE TO BE LABELED WITH THE CURRENT CLASSROOM NUMBER THEY ARE REMOVED FROM. BOX
- 7. DEVICES NOTED WITH SUBSCRIPT '[E]' DENOTES THE DEVICES ARE EXISTING AND TO REMAIN UNTOUCHED DURING DEMOLITION, UNLESS OTHERWISE NOTED.

EACH LOCATION IN SEPARATE BOXES AND LABEL WITH CLASSROOM NUMBER PRIOR TO RETURNING TO

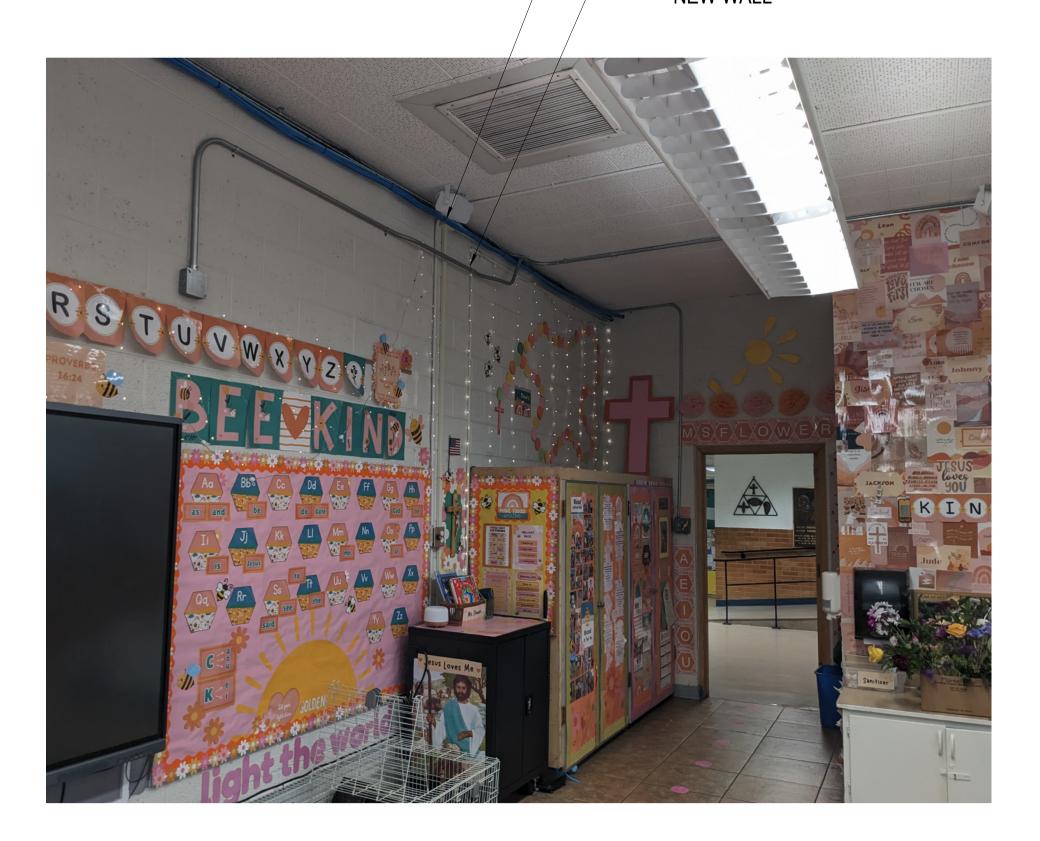
8. CIRCUIT #S, IF SHOWN, ARE FROM RECORD DRAWING AND SHOWN FOR REFERENCE ONLY. VERIFY EXISTING CONDITIONS PRIOR TO WORK.

COORDINATE NEW ALL LOCATION WITH ARCHITECTZ;

MOVE EXISTING ELECTRICAL DEVICES AS REQUIRED.

ARCHITECT TO NOTCH WALL AROUND EXISTING CABLES

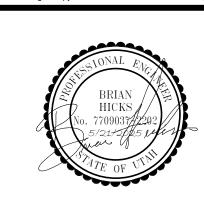
EXISTING CONDUIT TO BE REWORKED AND RAN AT OR NEAR CEILING LEVEL AND THROUGH NOTCHED AREA IN **NEW WALL** 





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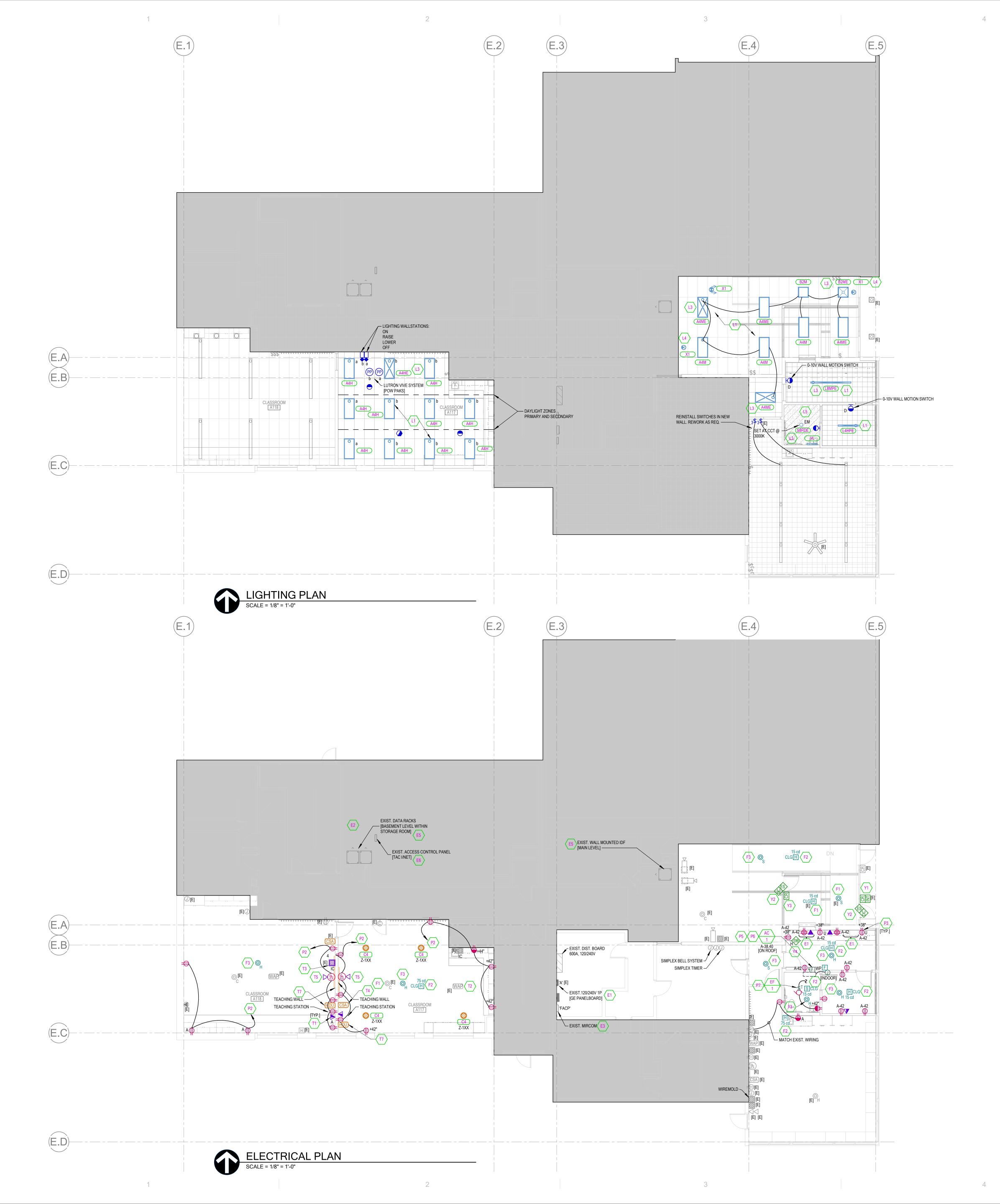
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CONSTRUCTION DOCUMENTS

ELECTRICAL **DEMOLITION** PLAN

MAY 21, 2025

ED101



# **GENERAL NOTES**

REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL FIXTURE LOCATIONS WITHIN A CEILING OR CEILING GRID. FOR AREAS
WITHOUT CEILINGS, FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN, CENTER, OR SPACE FIXTURES BETWEEN
ARCHITECTURAL AND STRUCTURAL ELEMENTS. CONTRACTOR TO PAINT EXPOSED RACEWAY TO MATCH ADJACENT SURFACES.

- ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR PLACEMENT OF FIXTURES WITHIN MECHANICAL ROOMS.
   ALL ROOM CONTROLLERS AND/OR POWER PACKS SHALL BE INSTALLED IN THE CEILING SPACE DIRECTLY ABOVE THE ENTRY DOOR TO THE SPACE IT IS CONTROLLING.
- 4. SEE CORRESPONDING LIGHTING DIAGRAMS FOR GENERAL INSTALLATION REQUIREMENTS, CONNECTIONS, AND CABLE TYPES.
- 5. PROVIDE UNSWITCHED NORMAL CIRCUIT HOT LEG TO ALL EMERGENCY POWER CONTROL DEVICES FOR PROPER POWER SENSING.
- 3. PROVIDE UNSWITCHED HOT AHEAD OF RELAY, OCCUPANCY SENSOR, OR SWITCH TO ALL EXIT SIGNS.
- 8. MANUFACTURER'S REPRESENTATIVE FOR DIVISION 26 AND BIDDING CONTROLS SHALL BE ACCOUNTABLE FOR THE COMPREHENSIVE LIGHTING CONTROLS PACKAGE'S FINALIZATION IN ALIGNMENT WITH THE DESIGN INTENT DEPICTED IN THE DRAWINGS AND COMPLYING WITH IECC 2021 REQUIREMENTS. THE LIGHTING REPRESENTATIVE IS REQUIRED TO DEVELOP DETAILED SHOP DRAWINGS DEMONSTRATING THE LIGHTING

CONTROL SYSTEM'S TOPOLOGY AND THE ESSENTIAL CONNECTIONS NECESSARY FOR ITS PROPER FUNCTIONING. LIGHTING CONTROL DEVICES SHOWN ARE TO PROVIDE GENERAL INTENT ONLY. MANUFACTURERS REPRESENTATIVE TO PROVIDE ALL ADDITIONAL DEVICES AND

IF SHOWN, SUBSCRIPT NEAR LIGHT FIXTURES INDICATES CONTROL INTENT. PROVIDE LIGHTING CONTROLLERS WITH THE REQUIRED NUMBER

- 9. PROVIDE ADDITIONAL RELAYS/DIMMERS FOR DAYLIGHT ZONES AS NEEDED. PROVIDE 0-10V DIMMING FOR ALL AREAS AND/OR ROOMS WHERE 0-10V DIMMING IS INDICATED BY THE WALLSTATION CONTROL SEQUENCE AND OR BY TYPE OF CONTROL INTERFACE SHOWN.
- D. PROVIDE CONDUIT FROM DEVICE TO DEVICE IN OPEN AND/OR EXPOSED CEILINGS. CEILINGS WITH CLOUDS ARE CONSIDERED OPEN/EXPOSED CEILINGS. NO EXPOSED CABLES SHALL BE SEEN FROM BELOW.
- 11. COORDINATE PLACEMENT OF ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN. WHERE DEVICES ARE SHOWN IN SAME WALL SPACE, ALIGN VERTICALLY AND HORIZONTALLY. COORDINATE WITH ARCHITECTURAL DRAWINGS, ATHLETIC SAFETY WALL PADDING AND CABINETRY DRAWINGS.
- 12. ALL THE LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIO/VISUAL EQUIPMENT, SOUND AMPLIFICATION, ETC. TO BE ROUTED THROUGH CONDUIT IN EXPOSED AND CLOUDED CEILING AREAS.

MODIFY DEVICE LOCATIONS AS REQUIRED TO MEET IECC 2021 REQUIREMENTS

- 13. ALL LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIO/VISUAL EQUIPMENT, CLASSROOM SOUND AMPLIFICATION, ETC. TO BE PROPERLY SUPPORTED PER THE TELE/DATA SPEC. AND AT 5'-0" INTERVALS AND TO FOLLOW BUILDING STRUCTURAL LINES. PULLING WIRE DIAGONALLY ACROSS ROOMS IS NOT ALLOWED. USING CEILING SYSTEM OR LIGHT FIXTURE SUPPORT/SEISMIC WIRES FOR SUPPORT IS NOT ALLOWED.
- 14. PROVIDE GFCI PROTECTION ON ALL DEVICES AND EQUIPMENT PER THE NEC REQUIREMENTS. DEVICES SHALL BE READILY ACCESSIBLE. IF ANY OUTLET IS INSTALLED WITHIN 6 FEET OF OUTSIDE EDGE OF SINK, CONTRACTOR SHALL PROVIDE GFCI RECEPTACLE PER NEC, WHETHER SHOWN OR NOT.
- 15. ALL RECEPTACLES LOCATED THROUGHOUT THE BUILDING SHALL BE TAMPER RESISTANT PER NEC 406.12.
- 16. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
   17. ALL NEW DATA DROPS SHALL BE RAN TO THE BASEMENT LEVEL IDF ROOM, UNLESS OTHERWISE NOTED.

# SHEET KEYNOTES

- EXISTING POWER AND LIGHTING PANELBOARDS. REMOVE ANY CIRCUITS NOT UTILIZED FOR NEW CONSTRUCTION BACK TO PANELBOARD. UTILIZE EXISTING CIRCUIT BREAKERS THAT WERE FREED DURING CONSTRUCTION WHEN NECESSARY/AVAILABLE. PROVIDE NEW UPDATED TYPED INDEX CARD IDENTIFYING NEW AND REMAINING CIRCUITS.
- E2 BIDDING DIVISION 26,27, AND 28 CONTRACTOR(S) RESPONSIBLE FOR EXPANDING EXISTING SYSTEMS FOR THE REMODELED AREAS. PROVIDE A TURN-KEY SOLUTION AND BUILD-OUT FOR ALL IMPACTED SYSTEMS I.E. NETWORK, FIRE ALARM, AND INTERCOM.
- E3 EXISTING MIRCOM FX-351 MAIN FIRE ALARM PANEL. EXTEND EXISTING FIRE ALARM INITIATION/NOTIFICATION CIRCUITS TO ACCOMMODATE NEW FIRE ALARM DEVICES SHOWN AND AS REQUIRED. MATCH SYSTEM WIRING. SEE DEMO AND NEW ELECTRICAL PLAN FOR REQUIREMENTS.
- ES EXISTING NETWORK RACK. REMOVE ANY DEMOLISHED NETWORK CIRCUITS BACK TO SOURCE. WHERE SHOWN ON PLANS, ROUTE NEW DATA CABLES TO THE NEAREST TELECOM ROOM. PROVIDE NEW PATCH PANEL AND TERMINATE NEW CABLES AS REQUIRED. SEE NEW ELECTRICAL PLAN FOR NEW REQUIREMENTS.
- E6 EXISTING ACCESS CONTROL HEAD-END PANEL. PROVIDE NEW CARD READERS AND ACCESS CONTROL CIRCUITS AS SHOWN. ADD ADDITIONAL CONTROLLERS AS REQUIRED FOR NEW CARD READERS. SEE NEW ELECTRICAL PLAN FOR NEW REQUIREMENTS.
- F1 REINSTALL EXISTING FIRE ALARM DEVICE PREVIOUSLY REMOVED DURING DEMOLITION. EXTEND EXISTING CIRCUIT AND REWORK AS REQUIRED.
- F2 PROVIDE NEW HORN/STROBE AS SHOWN. TIE ONTO EXISTING FIRE ALARM LOOP.

NOT SHOWN BUT WIRED TO THE EXISTING CIRCUIT.

- F3 PROVIDE NEW SMOKE/HEAT DETECTOR AS SHOWN. TIE INTO THE EXISTING FIRE ALARM INITIATION LOOP.
- L1 PROVIDE NEW LIGHT FIXTURES AND CONTROLS AS SHOWN. WIRE NEW LIGHT FIXTURES TO LIGHTING CIRCUIT PREVIOUSLY FEEDING THIS AREA.
- L3 FIXTURE SUPPLIED WITH EMERGENCY BATTERY BACK-UP. WIRE FIXTURE INTO NORMAL CONTROL/CIRCUIT AS INDICATED. PROVIDE UNSWITCHED NORMAL CIRCUIT HOT LEG TO ALL EMERGENCY POWER CONTROL DEVICES FOR PROPER POWER SENSING AND OPERATION DURING A POWER OUTAGE.
- PROVIDE NEW EXIT SIGN AS SHOWN. WIRE TO EXISTING UNSWITCHED EMERGENCY CIRCUIT PREVIOUSLY FEEDING CORRIDOR/EXIT SIGNS AND AHEAD OF NEW RELAY.
- PROVIDE NEW LIGHT FIXTURES AND CONTROLS AS SHOWN. WIRE LIGHTING AND NEW EXHAUST FAN TOGETHER UTILIZING THE SAME 120V CIRCUIT. SET WALL MOTION WALL SENSOR SWITCH TO 15 MINUTE OFF DELAY.
- PROVIDE NEW DEVICES AS SHOWN. CIRCUIT TO EXISTING RECEPTACLE CIRCUIT FREED DURING DEMOLITION. VERIFY EXISTING CIRCUITING CONDITIONS AND MAINTAIN CIRCUIT INTEGRITY OF ANY ADDITIONAL DEVICES
- PROVIDE NEW ELECTRICAL DEVICE AND CIRCUIT/TERMINATION(S) AS SHOWN (MINIMUM OF #12 CU). PROVIDE NEW 20A 1P BREAKER WITHIN EXISTING PANELBOARD AND TERMINATE CIRCUIT AS REQUIRED.
- PROVIDE NEW CIRCUIT/TERMINATION(S)/DISC. FOR NEW MECHANICAL/PLUMBING EQUIPMENT AS SHOWN.
  WIRE TO EXISTING DISTRIBUTION/PANELBOARD INDICATED. REFER EQUIPMENT SCHEDULE AND PANELBOARD
  FOR BREAKER AND WIRE SIZE REQUIREMENTS.
- P6 OUTDOOR UNIT POWERS INDOOR UNIT. VERIFY LOCATION OF SPLIT AC SYSTEM AND WIRE ACCORDINGLY. PROVIDE 3/4" CONDUIT AND POWER CIRCUIT WIRING BETWEEN OUTDOOR AND INDOOR UNIT. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL CONDUIT AND WIRING. COORDINATE LOCATION TERMINATION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- P7 PROVIDE POWER TO NEW EXHAUST FAN. CIRCUIT TO EXISTING EXHAUST FAN CIRCUIT FREED DURING DEMOLITION. WIRE EXHAUST FAN CONTROL WITH WALL MOTION LIGHT SWITCH. SET 15 MINUTE DELAY ON SWITCH. REFER EQUIPMENT SCHEDULE AND PANELBOARD FOR BREAKER AND WIRE SIZE REQUIREMENTS.
- PROVIDE CAT6A DATA CABLE(S) AND OUTLET AS SHOWN. ROUTE AND TERMINATE AT NEAREST TELECOM ROOM/IDF. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- REINSTALL EXISTING WIRELESS ACCESS POINT DEVICE PREVIOUSLY REMOVED DURING DEMOLITION. EXTEND EXISTING WIRING AND REWORK AS REQUIRED.
- REINSTALL EXISTING INTERCOM SPEAKER/STATION PREVIOUSLY REMOVED DURING DEMOLITION. EXTEND EXISTING WIRING AND REWORK AS REQUIRED.
- WITH INTERCONNECTIONS WITH OWNER-PROVIDED DISPLAY FOR PROPER AUDIO OUTPUT FROM DISPLAY. COORDINATE WITH AUDIO-ENHANCEMENT CONTACT PROVIDED SHEET E001 FOR BID AND INSTALL.

PROVIDE NEW AE CLASSROOM SOUND SYSTEM [MS-700+OPTIMUM SYSTEM]. PROVIDE COMPLETE SYSTEM

T5 PROVIDE FSR METAL PRODUCTS â€" PWB-3204 OR EQUAL DISPLAY BOX.. PROVIDE (1) 1-1/4" CONDUIT BETWEEN ACCESSBILE CEILING AND DISPLAY BOX+THE AV CONNECT PLATE+POWER+DATA PATHWAY AND CABLING.. VERIFY DISPLAY BOX AND DISPLAY HEIGHT WITH OWNER PRIOR TO ROUGH-IN.

PROVIDE AE AVCONNECT (HDMI, USB, AND AUDIO) WALL TRANSMITTER AND RECEIVER AT THE TEACHING

- STATION LOCATION. PROVIDE REQUIRED HBL260 JUNCTION BOX WITH EXTENSION SINGLE GANG MUDRING AND (1) 1-1/4" CONDUIT BETWEEN BOX AND DISPLAY BOX ALONG CAT 6A STP OR HDBAST CERTIFIED CABLING. LOCATE RECEIVER BEHIND OFOI DISPLAY. PROVIDE ANY ADDITIONAL CONNECTIONS BETWEEN DISPLAY AND AE AMP FOR AUDIO OUTPUT. PROVIDE EXTRON HDMI ULTRA CABLE AND TERMINATE AT WALLPLATE AND DISPLAY AND CABLE FOR TEACHING STATION COMPUTER. COORDINATE WITH AUDIO-ENHANCEMENT CONTACT PROVIDED SHEET E001 FOR BID AND INSTALL.

  Y1 BEFORE STARTING ANY WORK OR ROUGH-IN, THE CONTRACTOR MUST COORDINATE A MEETING WITH THE
- SCHOOL / OWNER AND REVIEW THE PLANS AND CONFIRM THE EXACT MOUNTING LOCATION AND THE OPERATIONAL REQUIREMENTS FOR THE NEW HID CREDENTIAL CARD READER (SIGNO-20) AND THE EXISTING AIPHONE IP TWO-WAY AUDIO & VIDEO INTERCOM DOOR STATION (IX-DVM). THESE DEVICES THAT ARE INSTALLED ON THE DOOR FRAME OR MULLION, THE CABLING SHALL BE ROUTED THROUGH THE DOOR FRAME OR MULLION TO ENSURE A CLEAN AND SECURE INSTALLATION. NO EXPOSED CONDUIT OR CABLING IS PERMITTED. COORDINATE INSTALLATION LOCATIONS THE DOOR/WINDOW SYSTEM INSTALLER PRIOR TO ANY ROUGH-IN. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE SPECIFIED RACEWAY AND ALL NECESSARY CABLING TO CONNECT THE CREDENTIAL CARD READER TO THE ACCESS CONTROL SYSTEM, AND THE IP TWO-WAY AUDIO & VIDEO INTERCOM DOOR STATION TO THE INTERCOM ANSWERING BASE STATION, TO THE ACCESS CONTROL SYSTEM, AND TO THE IP VIDEO SURVEILLANCE NVR. THE CONTRACTOR MUST ENSURE THE INSTALLATION OF A COMPLETE AND FULLY FUNCTIONAL SYSTEM THAT INTEGRATES WITH THESE SYSTEMS, MEETS THE MANUFACTURER'S SPECIFICATIONS, AND COMPLIES WITH THE OWNER'S
- BEFORE STARTING ANY WORK OR ROUGH-IN, THE CONTRACTOR MUST COORDINATE A MEETING WITH THE SCHOOL / OWNER AND THE DIV.8 DOOR HARDWARE INSTALLATION CONTRACTOR AND REVIEW THE PLANS AND CONFIRM THE MOUNTING LOCATIONS, TYPE OF CABLING TO BE INSTALLED, THE ELECTRIFIED DOOR HARDWARE POWER REQUIREMENTS, AND THE OPERATIONAL PROGRAMMING FOR THE ELECTRIFIED DOOR HARDWARE AND THE DOOR POSITION SWITCHES / CONTACTS THAT ARE GETTING INSTALLED ON EACH DOOR EQUIPMENT INSTALLED ON DOOR FRAMES OR MULLIONS, THE CABLING SHALL BE ROUTED THROUGH THE DOOR FRAME OR MULLION TO ENSURE A CLEAN AND SECURE INSTALLATION. NO EXPOSED CONDUIT OR CABLING IS PERMITTED. COORDINATE INSTALLATION LOCATIONS WITH THE DOOR/WINDOW SYSTEM INSTALLER PRIOR TO ANY ROUGH-IN. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE SPECIFIED RACEWAY AND ALL NECESSARY CABLING TO CONNECT THE ELECTRIFIED DOOR HARDWARE AND THE DOOR POSITION SWITCHES / CONTACTS TO THE ACCESS CONTROL SYSTEM. THE CONTRACTOR MUST ENSURE THE INSTALLATION OF A COMPLETE AND FULLY FUNCTIONAL SYSTEM THAT INTEGRATES WITH THE ACCESS CONTROL SYSTEM, MEETS THE MANUFACTURER'S SPECIFICATIONS, AND COMPLIES WITH THE OWNER'S REQUIREMENTS.
- BEFORE STARTING ANY WORK OR ROUGH-IN, THE CONTRACTOR MUST COORDINATE A MEETING WITH THE SCHOOL / OWNER AND REVIEW THE PLANS AND CONFIRM THE EXACT MOUNTING LOCATION AND THE OPERATIONAL REQUIREMENTS FOR THE NEW HID CREDENTIAL CARD READER (SIGNO-20). CREDENTIAL CARD READERS THAT ARE INSTALLED ON THE DOOR FRAME OR MULLION, THE CABLING SHALL BE ROUTED THROUGH THE DOOR FRAME OR MULLION TO ENSURE A CLEAN AND SECURE INSTALLATION. NO EXPOSED CONDUIT OR CABLING IS PERMITTED. COORDINATE INSTALLATION LOCATIONS THE DOORWINDOW SYSTEM INSTALLER PRIOR TO ANY ROUGH-IN. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE SPECIFIED RACEWAY AND ALL NECESSARY CABLING TO CONNECT THE CREDENTIAL CARD READER TO THE ACCESS CONTROL SYSTEM. THE CONTRACTOR MUST ENSURE THE INSTALLATION OF A COMPLETE AND FULLY FUNCTIONAL SYSTEM THAT INTEGRATES WITH THE ACCESS CONTROL SYSTEM, MEETS THE MANUFACTURER'S SPECIFICATIONS, AND COMPLIES WITH THE OWNER'S REQUIREMENTS.
- BEFORE STARTING ANY WORK OR ROUGH-IN, THE CONTRACTOR MUST COORDINATE A MEETING WITH THE SCHOOL / OWNER AND REVIEW THE PLANS AND THE MILLWORK DRAWINGS AND CONFIRM THE EXACT MOUNTING LOCATION AND OPERATIONAL REQUIREMENTS FOR THE DOOR RELEASE BUTTON (ALARM CONTROL #TS-18) LOCATED ON THE RECEPTION DESK IN AREA #A113. THE DOOR RELEASE BUTTON WILL NEED TO BE PROGRAMMED TO OPERATE THE ELECTRIFIED DOOR HARDWARE ON DOOR #A112A. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE SPECIFIED RACEWAY AND ALL NECESSARY CABLING TO CONNECT THE DOOR RELEASE BUTTON TO THE ACCESS CONTROL SYSTEM. THE CONTRACTOR MUST ENSURE THE INSTALLATION OF A COMPLETE AND FULLY FUNCTIONAL DOOR RELEASE BUTTON SYSTEM THAT INTEGRATES WITH THE ACCESS CONTROL SYSTEM, MEETS THE MANUFACTURER'S SPECIFICATIONS, AND COMPLIES WITH THE OWNER'S REQUIREMENTS.



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# EMORIAL CATHOLIC REMC

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SEAL



MHTN PROJECT NO. 2024579

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS

CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO. DATE DESCRIPTION

CONSTRUCTION DOCUMENTS
MAY 21, 2025

ELECTRICAL PLANS

SHEET NUMBER